Avid | DS 5.0

INSTALLATION & ADMINISTRATION GUIDE

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FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment

generates, uses, and can radiate radio frequency energy and, if not installed in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian ICES-003

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Notice

Declaration of Conformity (According to ISO/IEC Guide 22 and EN 45014)

Application of Council Directives:	73/23/EEC, 89/336/EEC.
Standards to which Conformity is Declared:	EN60950:1992 + A1 + A2 + A3 + A4 + A11 CISPR 22:1985 / EN55022:1988 Class A EN55024:1998 + A1
Manufacturer's Name:	Avid Technology, Inc. 1925 Andover Street Tewksbury, MA 01876, USA
European Contact:	Nearest Avid Sales and Service Office or Avid Technology Sales Ltd. Sandyford Business Center Unit 3, Dublin 18, Ireland
Type of Equipment:	Information Technology Equipment
Product Name:	Products for the Windows NT and Windows 2000 Operating Systems: Avid|DS
Base Model Numbers:	None
Product Options:	All
Year of Manufacture:	2001

Products for the Windows NT and Windows 2000 Operating Systems: products were tested in a typical Avid|DS configuration.

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

George R. Smith, Director of Hardware Design and Development

Australia and New Zealand EMC Regulations

N1709

John Kells, Australian Operations Manager
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Australia
Phone: 61-2-8977-4800

Taiwan EMC Regulations BSMI Class A EMC Warning

警告使用者:
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Warnings

To reduce the risk of electrical shock, do not attempt to open the equipment unless instructed. Do not use a tool for purpose other than instructed.

Cast and Crew: Patrick Bayne, Geneviève Laberge, Sylvain Labrosse, Luc Langevin, Dominic Mercier, Marianne Rodrigues and Liven Tam.

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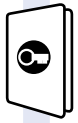
Before You Start

Where to Find Information

The Avid®|DS package includes a comprehensive set of learning materials. With this Roadmap, you'll know where to find the information you need to get up and running quickly and effectively.



Start with the **Workstation Setup Guide** to prepare your site for Avid|DS and assemble your workstation. Use the **Installation & Administration Guide** should you need to reinstall and license any of the components, or for tips on the daily maintenance of your system.

Use the **Drivers CD** if you need to reinstall or update the drivers for any of the components, or troubleshoot problems with Avid|DS. This CD also contains PDF versions of all the documentation and a few utilites you may find useful.

Note: In order to view the documentation on the CD, you need to have Adobe Acrobat Reader 5.0 and QuickTime version 5.0 or later installed. Acrobat Reader is included on the Drivers CD. QuickTime can be downloaded from the Apple website.

Refer to the **Release Notes** for feature limitations and workarounds.

You can join the **Avid|DS Discussion Group**, a worldwide network of Avid|DS users exchanging ideas and techniques by e-mail. To subscribe, send an e-mail to **majordomo@softimage.com** with the following text in the body of your message: **subscribe ds**.

Comments?

We'd appreciate any comments or suggestions you may have about this guide or any other piece of our documentation. Just send them to: **dsdocs@avid.com**.

Who Should Use This Guide?

This guide is intended for anyone who is installing an Avid|DS system for the first time, upgrading a system, or responsible for the daily management and administration of the system. Following these guidelines will help ensure the successful operation of your system.

New Users

The Avid|DS workstation comes with the software and drivers already installed. As a new user or someone who's just received a new Avid|DS system, you do not have to install the Avid|DS software. You should read the following chapters:

- Chapter 5: *Installing the License File* on page 45.
- Chapter 6: *Managing Your Windows 2000 Workstation* on page 55.

Existing Users

If you have a Softimage *DS* version 3.02 or earlier system and need to upgrade to Avid|DS 5.0, see Chapter 1: *Upgrading Your System* on page 15.

Existing Avid|DS Users

If you already have an Avid|DS system and need to upgrade or reinstall, use the following procedures.

To upgrade Avid|DS

1. Uninstall Avid|DS—see Chapter 2: *Uninstalling Avid|DS* on page 21.
2. Install the new version of Avid|DS—see Chapter 4: *Installing Avid|DS* on page 31.
3. Verify and update the hardware drivers—see Chapter 3: *Reinstalling the Avid|DS Hardware Drivers* on page 27.
4. Install the License—see Chapter 5: *Installing the License File* on page 45.

To reinstall Avid|DS

1. Verify and update the hardware drivers—see Chapter 3: *Reinstalling the Avid|DS Hardware Drivers* on page 27.
2. Uninstall Avid|DS—see Chapter 2: *Uninstalling Avid|DS* on page 21.
3. Install the new version of Avid|DS—see Chapter 4: *Installing Avid|DS* on page 31.

System Administrators

System administrators are typically responsible for the maintenance of the Avid|DS system and should consult the following chapters.

- Chapter 3: *Reinstalling the Avid|DS Hardware Drivers* on page 27.
- Chapter 6: *Managing Your Windows 2000 Workstation* on page 55.
- Chapter 7: *Managing Your Windows NT Workstation* on page 75

Document Conventions

This guide uses the following symbols and conventions:

Bold — Bold is used for menu commands, dialog box and property editor options, and file/folder names.

Italics — Italics place emphasis on certain words.

> — The greater than (>) sign indicates menu commands (and subcommands) in the order that you choose them. For example, **File** > **Import** means to open the File menu and then choose the Import command. This applies to menus from the main menu bar and pop-up menus that appear when you right-click on the interface.

Notes are reminders or contain important information.

Tips are useful bits of information, workarounds, and shortcuts that you may find helpful in a particular situation.

Warnings are used when you can lose or damage information or equipment, such as deleting data or not being able to easily undo an action. Warnings always appear *before* you attempt a task!

Mouse, Pen and Keyboard

In Avid|DS, you can use a two-button mouse (with wheel) or a pen and tablet. The left and right mouse buttons perform different operations. Unless otherwise stated, use the left mouse button.

The mouse and pen operate slightly differently. All the procedures in this guide are documented for the mouse. You can, however, easily use a pen or the keyboard. The following table shows the terms relating to the mouse, pen, and keyboard.

This term	Means this with a mouse	Means this with a pen
Click	Quickly press and release the left mouse button. Always use the left mouse button unless otherwise stated.	Tap the tablet once with the tip of the pen, or touch the pen to the tablet with enough pressure to click.
Double-click	Click the left mouse button twice rapidly.	Quickly tap the tablet twice in the same screen pixel or press the F5 key to go from single to double-click.
Right-click	Quickly press and release the right mouse button.	Press the top portion of the switch on the side of the pen or press the F6 key to go from left to right-click.
Drag	Hold down the left mouse button or the wheel while you move the mouse.	Press the pen to the tablet while moving the pen.
Alt+*key*, Ctrl+*key*, Shift+*key*, *etc.*	Hold down the first key while you press the second key. For example, "Press Alt+F1" means to hold down the Alt key while you press the F1 key.	

Customizing the Pen or Mouse

By customizing the pen, you can adjust the click pressure, switch functions, and other features. For information on customizing the pen, refer to the WACOM ArtZII documentation provided with your Avid|DS system.

You can also customize the mouse. For example, you can select left-handed configuration or change the double-click speed.

For information on customizing the mouse, refer to the Windows 2000 or Windows NT online help.

Avid|DS Support

Technical support for Avid|DS is provided by your Avid reseller working together with Avid|DS Customer Service. Immediate assistance for any technical issue is available through our hotline, e-mail, and web support services.

Licensing Support

You must contact your reseller to request a license for your Avid|DS system. You can do this through your reseller or through the license request form under **Licensing** at **http://softimage.com/avidds**.

Training Support

If you're interested in Avid|DS training, you'll find a complete overview of courses, education centers, and training programs under **Education** at **http://softimage.com/avidds**.

Hotline Support

Avid resellers provide first line support for Avid|DS according to their specific geographical area and time zone. Working as an extension of Avid|DS Customer Service, these fully trained agents provide the most efficient and effective support possible to all our customers.

Contact information for your Avid reseller is available through the Avid Reseller Locator at **http://avid.com/cgi/locator/index.asp**.

You can reach Avid|DS Customer Service at the following:

Avid|DS Customer Service

North America
tel: 1 800 387-2559
fax: 1 514 845 8252

Worldwide
tel: 1 514 845-2199
fax: 1 514 845 8252

9:00 am to 9:00 pm (Eastern)
2:00 pm to 2:00 am (GMT)

Hotline assistance is also available 24 hours a day, 7 days a week for an additional fee.

Europe
tel: 44 175 365 0670
fax: 44 175 365 8503

9:00 am to 6:00 pm (GMT)
4:00 am to 1:00 pm (Eastern)

E-mail & Web
e-mail: dssupport@avid.com
web: avid.com

Corporate Addresses

You can reach Avid Technology, Inc. at the following addresses:

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Singapore 159944
Republic of Singapore
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fax: 65 475 7666

Avid|DS Mailing List

If you have an e-mail account, you can join the worldwide network of Avid|DS users exchanging ideas. The mailing list has proven to be quite useful for users, with a constant stream of new subscribers.

To subscribe, send an e-mail to **majordomo@softimage.com** with the following text in the body of your message: **subscribe ds**. You can get further information on using the automated list server by e-mailing **majordomo@softimage.com** with "help" as your message.

Web Support

The Avid|DS Support and Download sections at **http://softimage.com/avidds** provide quick access to a wide range of resources from the Avid|DS teams and user community. Downloads, including presets, drivers, and Quick Fix Engineering (QFE), provide the latest solutions for your Avid|DS system. Online documentation, tutorials, and Knowledge Base articles ensure you get the most out of your work with Avid|DS. It's like having a dedicated Avid|DS Customer Service engineer sitting at your desk!

Chapter 1 Upgrading Your System

In This Chapter...

This chapter describes how to upgrade from previous versions to Avid|DS 5.0.

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Uninstalling Previous Versions 18
Disk Space Limitation 20

Upgrading Your System

To upgrade to Avid|DS 5.0, make sure you follow these procedures.

In order to complete the upgrade, you must have Administrator privileges on the workstation.

1. As a security measure, we strongly suggest that you back up your system to protect it in case of a failure during the upgrade—see *Creating a Disk Configuration Disk* on page 89, and *Backing Up Your Registry* on page 91.
2. Archive your projects.

It is absolutely essential that you complete this step, so that you can still open and use any projects created with version 3.02 or earlier.

Before you proceed with the upgrade, you must archive all of your current projects—refer to *Archiving Projects* in the Softimage *DS* User's Guide (version 2.0 or 3.0).

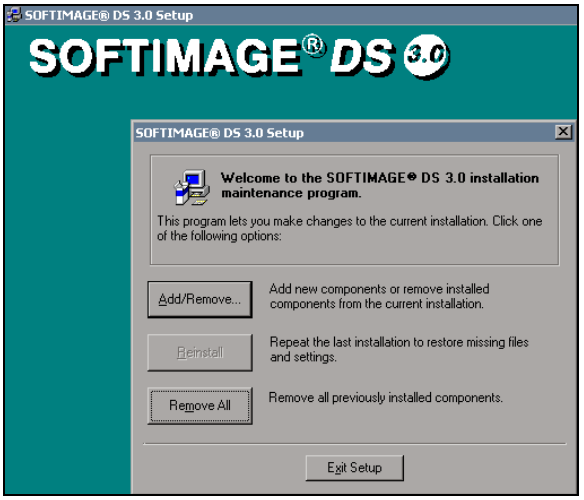
3. Delete the archived projects from your video storage—refer to *Deleting Projects* in the Softimage *DS* User's Guide (version 2.0 or 3.0).
4. Uninstall any plug-ins—see *Removing Plug-ins* on page 23.
5. Uninstall Softimage *DS*—see *Uninstalling Previous Versions* on page 18.
6. On GT1 systems, check your disk space—see *Disk Space Limitation* on page 20.
7. Install Avid|DS 5.0—see *Installing Avid|DS* on page 33.
8. Upgrade the hardware drivers—see *Verifying the Installed Drivers* on page 30.
9. Restore your projects—refer to *Restoring Projects* on page 40 of the Avid|DS 5.0 User's Guide.

Uninstalling Previous Versions

The following procedure is valid for versions 2.1, 3.0, 3.01 and 3.02 of Avid|DS (formerly known as SOFTIMAGE|DS and Softimage *DS)*.

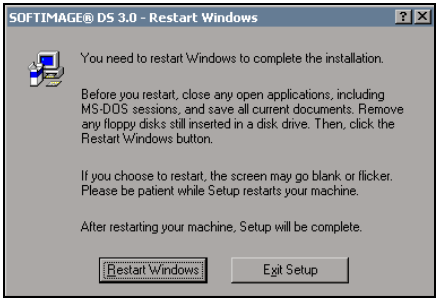
To uninstall Softimage DS

1. Go to **Start** > **Programs** > **Softimage DS** > **Setup**.


SOFTIMAGE® DS 3.0 Setup
SOFTIMAGE® DS 3.0
SOFTIMAGE® DS 3.0 Setup
Welcome to the SOFTIMAGE® DS 3.0 installation maintenance program.
This program lets you make changes to the current installation. Click one of the following options:
Add/Remove...
Add new components or remove installed components from the current installation.
Reinstall
Repeat the last installation to restore missing files and settings.
Remove All
Remove all previously installed components.
Exit Setup

2. In the Softimage *DS* Setup window, click **Remove All**.
3. At the verification prompt, click **Yes**.

   The files are removed and you're prompted to restart windows.


SOFTIMAGE® DS 3.0 - Restart Windows
You need to restart Windows to complete the installation.
Before you restart, close any open applications, including MS-DOS sessions, and save all current documents. Remove any floppy disks still inserted in a disk drive. Then, click the Restart Windows button.
If you choose to restart, the screen may go blank or flicker. Please be patient while Setup restarts your machine.
After restarting your machine, Setup will be complete.
Restart Windows
Exit Setup

4. Click **Restart Windows** to restart your workstation.

System Cleanup

After removing Softimage *DS* from your system, there are some leftover folders and registry entries that you should remove before installing Avid|DS 5.0. But before you do that, we highly recommend that you clean your system first.

To clean your system

1. Go to the **C:\Program Files** folder. If the Softimage *DS* folder is present, verify its contents for EDLs, OMFs, bitmaps, or anything you may have saved there.
2. Move these items to a more appropriate location.
3. When you're finished, delete the **Softimage *DS*** folder.
4. Go to the **F:\Program Files\Common Files** folder. If the Softimage *DS* folder is present, verify its contents again for important files, move them, and then delete it.
5. At the root of the F: partition (F:\), verify if you have important presets and script files in both the **DSPresets** and **DSScripts** folders. If so, back up these files and then both folders.
6. On the Avid|DS Drivers CD, browse to the **\utils\cleanreg\batch** folder and run the **cleanreg.bat** file to delete the remaining Softimage *DS* registry keys.

Disk Space Limitation

The older TDZ 2000 GT1 systems had their internal system drive configured as follows:

Partition	Label	Partition size
C:	[System]	2 GB
E:	[AudioStorage]	3.5 GB
F:	[Projects]	3 GB

Avid|DS 5.0 requires 175 MB of disk space. If your system matches the above configuration, it is possible that the installation of Avid|DS 5.0 will require too much disk space on an already very crowded C: partition. If that's the case, you must decide what to do in order to prepare your system before the upgrade.

To work around this, you could try the following:

- Remove as many unnecessary files from the C: partition as possible.
- Uninstall any programs that are not required to work with Avid|DS.
- Move the Virtual Memory (pagefile) from C: to another partition on this drive (preferably F:, but you could use E:).

If the disk space is still an issue and you cannot keep the free space higher than 20% of total disk space at all times, consider repartitioning your drive. This involves getting rid of all the current partitions and reformatting the drive in a new configuration.

The most recent Intergraph GT1 system drives were partitioned as follows:

Partition	Label	Partition size
C:	[System]	4 GB
E:	[AudioStorage]	2.5 GB
F:	[Projects]	2 GB

You may decide to follow this configuration, replace the internal system drive, or add an additional drive inside the GT1 to enlarge your partitions.

Chapter 2 Uninstalling Avid|DS

In This Chapter...

This chapter describes how to uninstall Avid|DS. Follow the instructions in this section if you need to reinstall or upgrade Avid|DS.

Uninstalling Avid|DS 23

Uninstalling Avid|DS

When you first receive your Avid|DS workstation, all the software you need to run Avid|DS is already installed and tested. You should follow the instructions in this chapter only if you are reinstalling or upgrading Avid|DS.

As of version 4.0, you can install multiple versions of Avid|DS on your workstation. Therefore, you do not need to remove Avid|DS 4.*x* to install Avid|DS 5.0.

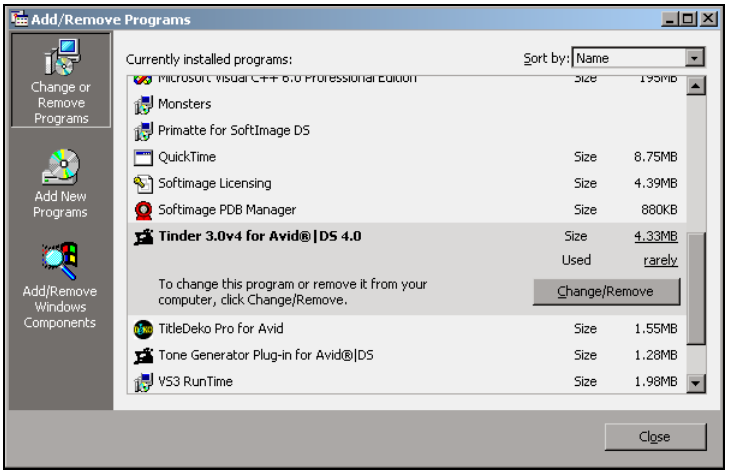
Removing Plug-ins

Before removing the Avid|DS software, you must first remove any plug-ins that were installed on your system. This procedure varies slightly depending on whether you're using the Windows 2000 or Windows NT operating system.

If you uninstall Avid|DS before uninstalling the plug-ins, the uninstall procedure will fail.

To remove plug-ins on Windows 2000 workstations

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**.



2. Click **Change or Remove Programs**.
3. In the Currently Installed Programs list, check for any installed plug-ins.
4. Select the plug-ins installed on your system (one at a time) and click **Change/Remove**. Repeat this step until they're all removed.
5. Remove all Avid|DS native plug-ins:
   - Dual Audio Channel Switcher
   - Tone Generator

If you cannot uninstall some plug-ins, continue with the next one until completion, and then manually delete the Plug-In folder. Use the Windows Find utility to help you locate any Plug-In folders.

To remove plug-ins on Windows NT workstations

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**.
2. From the application list, check for any installed plug-ins.
3. Select the plug-ins installed on your system (one at a time) and click **Add/Remove**. Repeat this step until they're all removed.
4. Remove all Avid|DS native plug-ins:
   - Dual Audio Channel Switcher
   - Tone Generator

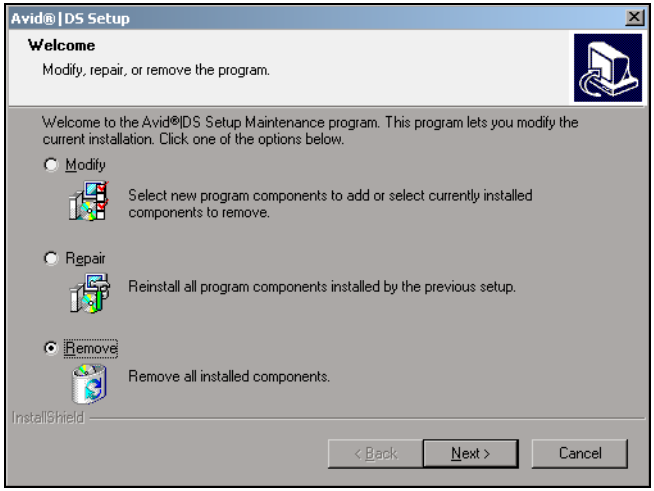
If you cannot uninstall some plug-ins, continue with the next one until completion, and then manually delete the Plug-In folder. Use the Windows Find utility to help you locate any Plug-In folders.

Removing Avid|DS

Once you've finished removing the plug-ins, you can uninstall the Avid|DS software.

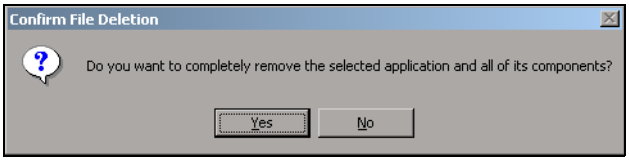
To remove Avid|DS

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v5.x** > **Setup**.


Avid® | DS Setup
Welcome
Modify, repair, or remove the program.
Welcome to the Avid®|DS Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Modify
Select new program components to add or select currently installed components to remove.
Repair
Reinstall all program components installed by the previous setup.
Remove
Remove all installed components.
InstallShield
< Back
Next >
Cancel

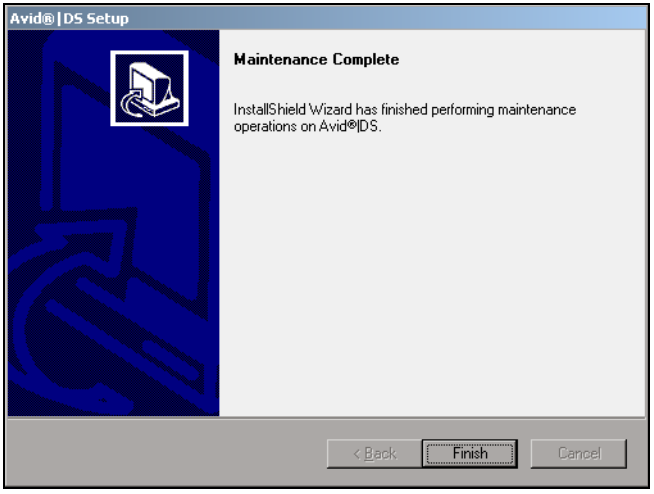
2. Select the **Remove** option and click **Next**.

   The Confirm File Deletion dialog box is displayed.



3. Click **Yes**.

   The Avid|DS files are removed from your system, and the Maintenance Complete dialog box is displayed.



4. Click **Finish**.

If you're prompted to restart the system, do so immediately to properly register the software to the operating system.

Removing the PICVideo MJPEG Codec

On Windows 2000 workstations, the standard definition version of Avid|DS uses the PICVideo MJPEG codec to provide software-based video compression. The Avid|DS Setup program installs the codec automatically, but cannot uninstall it. To complete the uninstallation of the standard definition version of Avid|DS, use the following procedure to remove the PICVideo MJPEG codec.

To remove the PICVideo MJPEG codec

1. Go to **Start** > **Settings** > **Control Panel** > **Sounds and Multimedia**.
2. Select the **Hardware** tab.
3. In the list of devices, select **Video Codecs**.
4. Click **Properties**.
5. Select the **Properties** tab.
6. Select the **PICVideo MJPEG Codec**.
7. Click **Remove**.
8. When prompted, click **Yes** to remove the codec.

Chapter 3 Reinstalling the Avid|DS Hardware Drivers

In This Chapter...

This chapter describes how to reinstall the hardware drivers for your Avid|DS workstation.

Reinstalling the Hardware Drivers 29

Verifying the Installed Drivers. 30

Reinstalling the Hardware Drivers

When you first receive your Avid|DS workstation, all the software you need to run Avid|DS is already installed and tested. You should not remove or modify the installed software.

If you need to update, reinstall, or reconfigure specific system software components or drivers, use the Avid|DS Drivers CD that comes with your workstation. Updated and improved versions of these drivers are posted on the Avid|DS web site. For more information, see *Web Support* on page 13.

For specific details on hardware drivers, refer to the accompanying vendor documentation and the Readme file that comes with each driver. The Readme file is a good place to look for information on the version of the drivers that you're using.

If any of the necessary drivers are not present on the Avid|DS Drivers CD, contact Avid|DS Customer Service.

Reinstalling the drivers is a very sensitive process. Make sure you follow all the instructions carefully and do not skip any steps. You also need to be logged on as Administrator when reinstalling drivers.

Verifying the Installed Drivers

Use the System Diagnostic utility to verify that you have the correct hardware drivers installed and determine which, if any, need to be reinstalled.

To verify the list of installed drivers

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v5.0** > **Customer Service** > **System Diagnostic**.

   The System Diagnostic utility is displayed.

2. In the Machine Serial number box, enter the serial number of your workstation and click **Run**.

   You should see a screen similar to the following:

3. If, for any of the listed drivers, the version found does not match the version expected, you need to update that driver—see *Reinstalling the Hardware Drivers* on page 29.

Chapter 4 Installing Avid|DS

In This Chapter...

This chapter describes how to install Avid|DS and install/remove fonts.

Installing Avid|DS 33
Installing and Removing Fonts 42

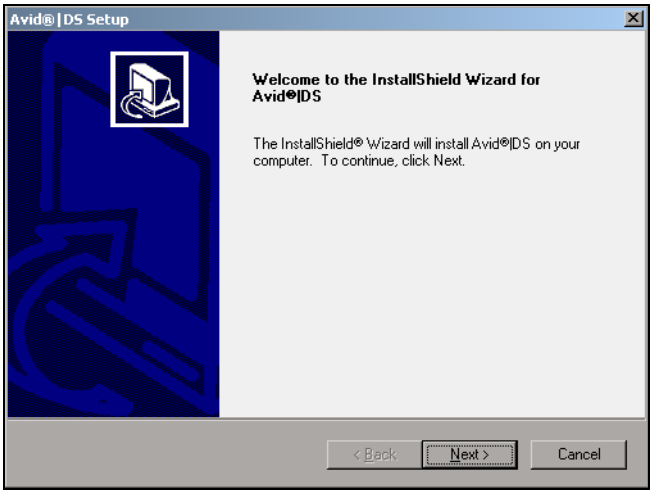
Installing Avid|DS

Once all of the hardware drivers are installed, you can install the current version of Avid|DS.

To install Avid|DS, you must log on to an account that has Administrator privileges.

To install Avid|DS

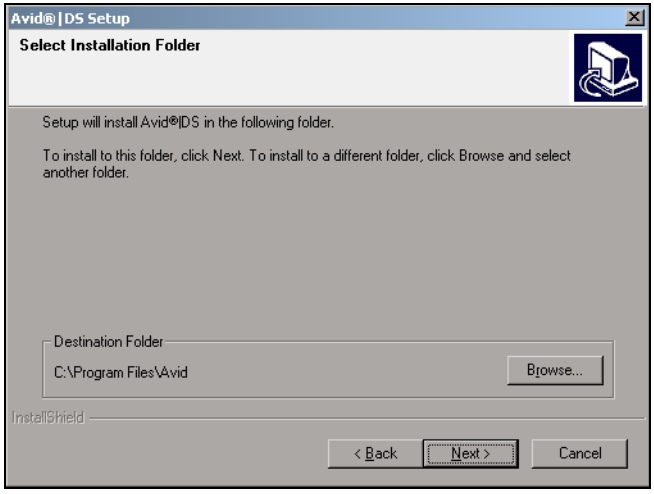
1. From the Avid|DS Software CD, open the **\DS\DSSetup** folder.
2. Double-click on the **Setup.exe** file.


Avid® | DS Setup
Welcome to the InstallShield Wizard for Avid®|DS
The InstallShield® Wizard will install Avid®|DS on your computer. To continue, click Next.
< Back
Next >
Cancel

3. In the Avid|DS Setup dialog box, click **Next**.
4. In the License Agreement dialog box, read the End User License Agreement and click **I Accept** to accept the terms of the agreement and continue the installation.
5. In the Customer Information dialog box, enter your name and company name, and click **Next**.

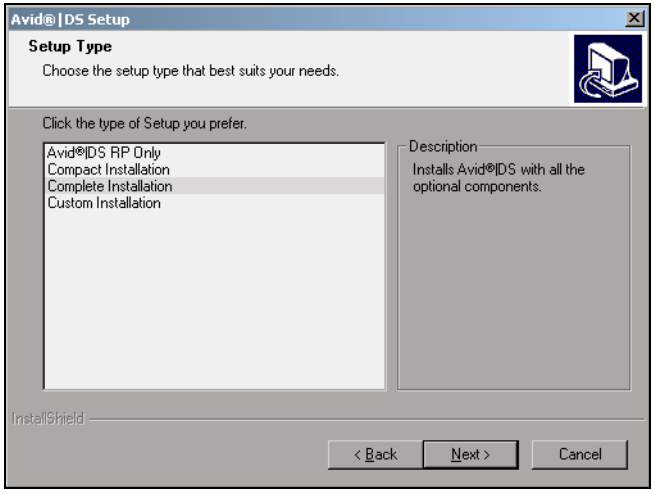
6. In the Reseller or Dealer Information dialog box, enter the requested information and click **Next**.

   The Select Installation Folder dialog box is displayed.


Avid® | DS Setup
Select Installation Folder
Setup will install Avid®|DS in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Avid
Browse...
InstallShield
< Back
Next >
Cancel

7. Do one of the following:
   - Click **Next** to accept the default folder.
   - Click **Browse** to specify a folder in which to install Avid|DS and click **Next**.

     The Setup Type dialog box is displayed.

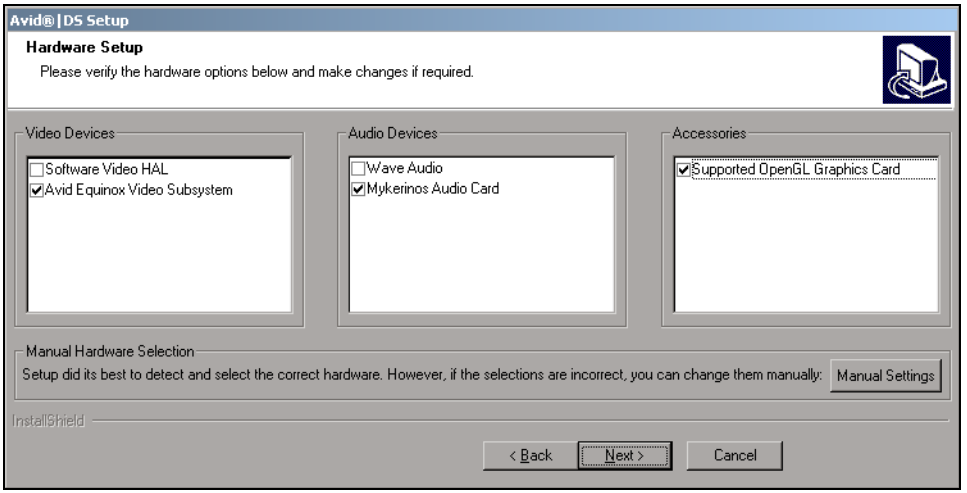


8. Select one of the following types of installation:
   - **Avid|DS RP Only** to install only Avid|DS RP. You won't be able to run Avid|DS, only the remote processor.
   - **Compact Installation** to install Avid|DS and Avid|DS RP without any optional components.
   - **Complete Installation** to install Avid|DS and all the optional components.
   - **Custom Installation** to install only the Avid|DS components that you select.

To install support for the JL Cooper surface controller, select **Custom Installation** and make sure the **Support for JL Cooper** option is selected.

9. Select the **Complete Installation** option and click **Next**.

   The Hardware Setup dialog box is displayed.


Avid® | DS Setup
Hardware Setup
Please verify the hardware options below and make changes if required.
Video Devices
Software Video HAL
Avid Equinox Video Subsystem
Audio Devices
Wave Audio
Mykerinos Audio Card
Accessories
Supported OpenGL Graphics Card
Manual Hardware Selection
Setup did its best to detect and select the correct hardware. However, if the selections are incorrect, you can change them manually:
Manual Settings
InstallShield
< Back
Next >
Cancel

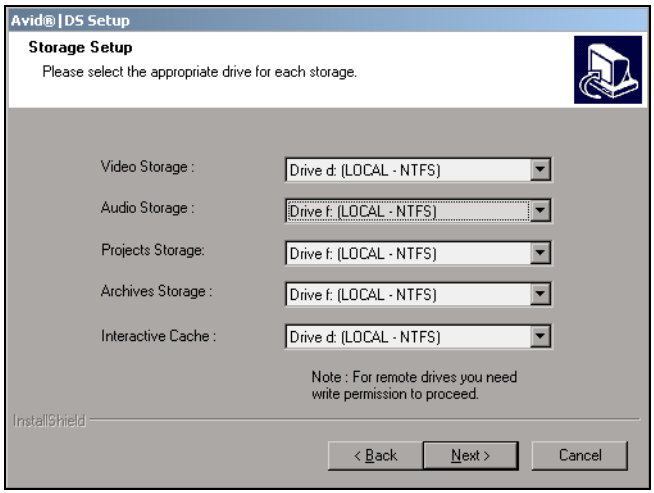
10. Verify that the hardware matches your workstation's configuration:

Workstation	Video devices	Audio devices	Accessories
IntelliStation Z Pro	Avid Equinox™ video subsytem	Mykerinos audio card	Supported OpenGL graphics card
SGI Zx10	Intergraph video HAL	Mykerinos audio card	Supported OpenGL graphics card
TDZ 2000 GT1	Intergraph video HAL	Keops audio card	Supported OpenGL graphics card

11. If the hardware options don't match your workstation's configuration, click **Manual Settings**, and select the correct hardware options.

12. Click **Next**.

    The Storage Setup dialog box is displayed.


Avid® | DS Setup
Storage Setup
Please select the appropriate drive for each storage.
Video Storage :
Drive d: (LOCAL - NTFS)
Audio Storage :
Drive f: (LOCAL - NTFS)
Projects Storage:
Drive f: (LOCAL - NTFS)
Archives Storage :
Drive f: (LOCAL - NTFS)
Interactive Cache :
Drive d: (LOCAL - NTFS)
Note : For remote drives you need write permission to proceed.
InstallShield
< Back
Next >
Cancel

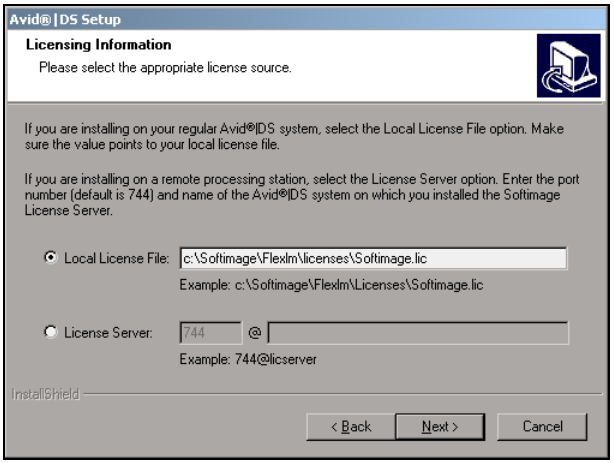
13. Specify the following and click **Next**.

    - **Video Storage**: \D: Select the actual drive letter for your video storage configuration.
    - **Audio Storage**: \F: Select the actual drive letter for your audio storage configuration.

    If Setup detects a previous installation of Avid|DS, it uses the existing Video and Audio storage locations. In this case the Video and Audio storage options are not shown.

    - **Projects Storage**: \F: Select the actual drive letter for your projects and presets storage configuration.
    - **Archives Storage**: \F: Select the actual drive letter for your archives storage configuration.
    - **Interactive Cache**: \D: Select the actual drive letter for your interactive cache storage configuration.

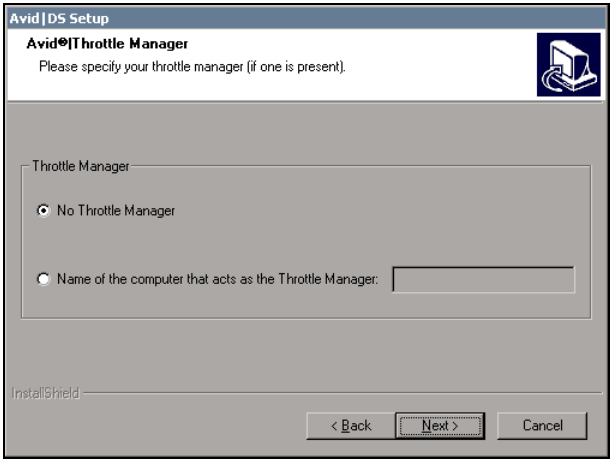
The Licensing Information dialog box is displayed.


Avid® | DS Setup
Licensing Information
Please select the appropriate license source.
If you are installing on your regular Avid®|DS system, select the Local License File option. Make sure the value points to your local license file.
If you are installing on a remote processing station, select the License Server option. Enter the port number (default is 744) and name of the Avid®|DS system on which you installed the Softimage License Server.
Local License File:
c:\Softimage\Flexlm\licenses\Softimage.lic
Example: c:\Softimage\Flexlm\Licenses\Softimage.lic
License Server:
744
@
Example: 744@licserver
InstallShield
< Back
Next >
Cancel

14. Do one of the following:

- If you're installing Avid|DS RP only, select the **License Server** option, and enter the following in the text box: **744@*machine_name*** (*machine_name* is the network name of the computer that will be the license server). Click **Next**.
- If you're installing Avid|DS, select the **Local License File** option, enter the following in the text box: **C:\Softimage\flexlm\Licenses\Softimage.lic** and click **Next**.

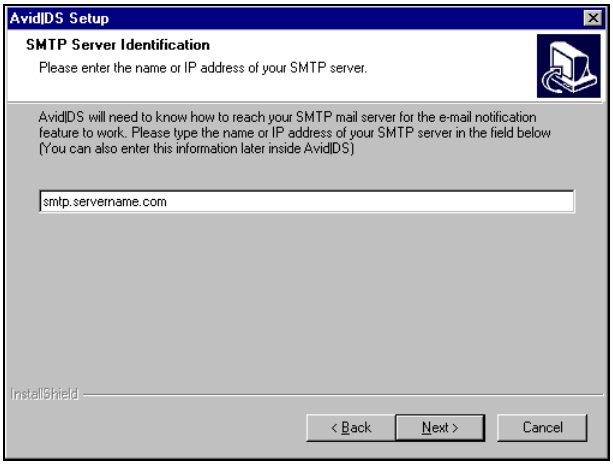
  The Avid|Throttle Manager dialog box is displayed.


Avid | DS Setup
Avid®|Throttle Manager
Please specify your throttle manager (if one is present).
Throttle Manager
No Throttle Manager
Name of the computer that acts as the Throttle Manager:
InstallShield
< Back
Next >
Cancel

15. Do one of the following:
    - If you don't have an Avid|Throttle Manager for your workstation, select the **No Throttle Manager** option and click **Next**.
    - If you have an Avid|Throttle Manager installed, select **Name of the computer…** and enter the network name of the workstation computer where the Avid|Throttle Manager is installed. Click **Next**.

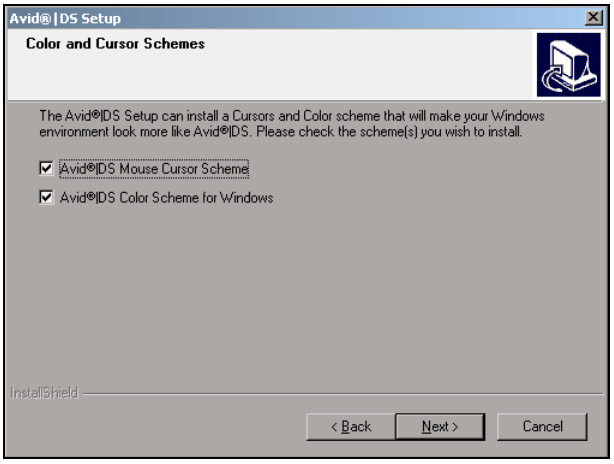
For information on the Avid|Throttle Manager, refer to *Avid|Throttle Manager* on page 10 of the Avid|DS Remote Processing Guide.

The SMTP Server Identification dialog box is displayed.


Avid|DS Setup
SMTP Server Identification
Please enter the name or IP address of your SMTP server.
Avid|DS will need to know how to reach your SMTP mail server for the e-mail notification feature to work. Please type the name or IP address of your SMTP server in the field below (You can also enter this information later inside Avid|DS)
smtp.servername.com
InstallShield
< Back
Next >
Cancel

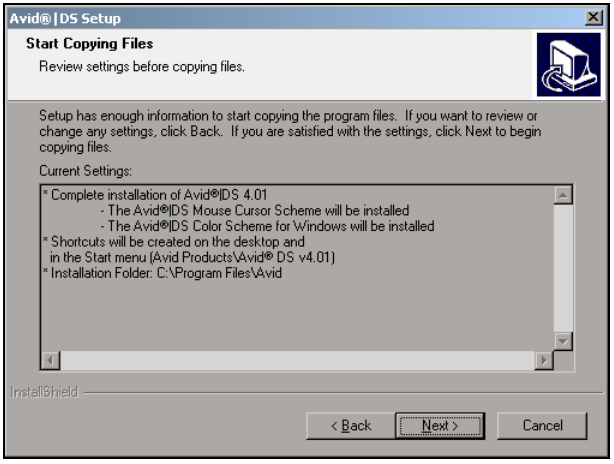
16. Enter the name or IP address of your SMTP server and click **Next**.

    The Color and Cursor Schemes dialog box is displayed.


Avid® | DS Setup
Color and Cursor Schemes
The Avid®|DS Setup can install a Cursors and Color scheme that will make your Windows environment look more like Avid®|DS. Please check the scheme(s) you wish to install.
Avid®|DS Mouse Cursor Scheme
Avid®|DS Color Scheme for Windows
InstallShield
< Back
Next >
Cancel

17. Select the schemes that you want to install and click **Next**.

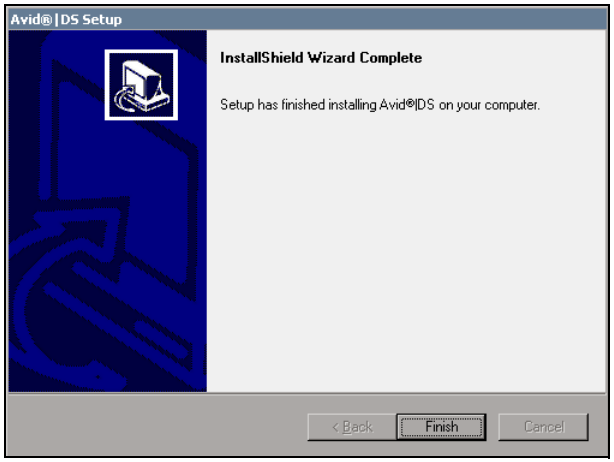
    The Start Copying Files dialog box is displayed.


Avid® | DS Setup
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
* Complete installation of Avid®|DS 4.01
- The Avid®|DS Mouse Cursor Scheme will be installed
- The Avid®|DS Color Scheme for Windows will be installed
* Shortcuts will be created on the desktop and in the Start menu (Avid Products\Avid® DS v4.01)
* Installation Folder: C:\Program Files\Avid
InstallShield
< Back
Next >
Cancel

18. Review your installation settings and if you're satisfied, click **Next**.

    A progress indicator is displayed as the Avid|DS files are copied to your system. When the copying is complete, you are prompted to run the Storage Utility to verify your storage configuration.

19. Click one of the following:
    - **Yes** to verify your storage configuration before continuing the installation.
    - **No** to skip the verification and continue the installation.



20. Click **Finish** to complete the installation.

    If you're installing Avid|DS, you are prompted to install the license server once all the files have been copied to your system.

    If you're installing Avid|DS RP only, the installation is complete.

Installing the License Server

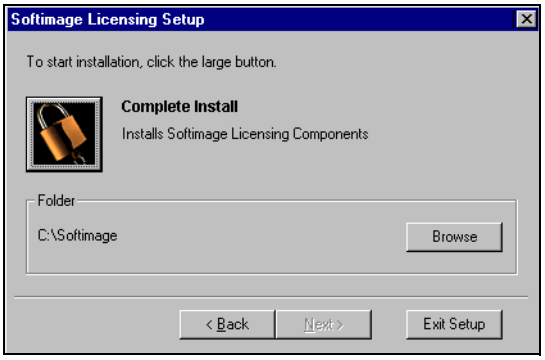
The setup program automatically starts the Softimage Licensing Setup program to install the license server. If you're setting up an Avid|DS workgroup, you must install the license server on one of the client workstations.

If you're installing Avid|DS RP, the Softimage Licensing Setup program will not automatically start.

To install the license server

1. When prompted, click **OK** to start the Softimage Licensing Setup.
2. In the Welcome dialog box, click **Next**.
3. In the License Agreement dialog box, read the License Agreement and click **Yes** to accept the terms and conditions.

   You are prompted to enter your name and the name of your company.
4. Enter the requested information. Click **Next** and then click **Yes** to confirm.

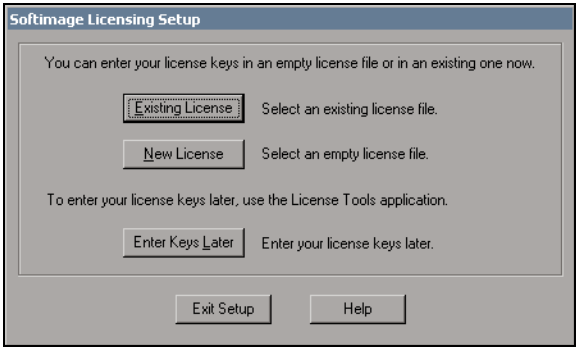


5. In the Softimage Licensing Setup dialog box, click **Complete Install**.

   You are prompted to select a folder in which to install the license server.

6. Select **Avid Products** and click **Next**.

   The program files are copied to your hard drive, and the following dialog box is displayed. You must enter the license keys from the license file, which you should have already received by e-mail—see *Requesting a License File* on page 47.


Softimage Licensing Setup
You can enter your license keys in an empty license file or in an existing one now.
Existing License
Select an existing license file.
New License
Select an empty license file.
To enter your license keys later, use the License Tools application.
Enter Keys Later
Enter your license keys later.
Exit Setup
Help

7. If you already have an existing license file, click **Existing License**, select the file, and copy the new license keys into the file.

8. Do one of the following:

   - If you're setting up a new license file, click **New License**, and copy the license keys into the file.
   - Click **Enter Keys Later**.

   Your installation is complete.

Installing and Removing Fonts

Avid|DS supports the following typeface formats:

- Type 1
- TrueType (PC-formatted)

Avid|DS does not require any additional software to access TrueType fonts, but does require Adobe Type Manager (ATM) software to access Type 1 fonts.

Included in the \Fonts folder of the Avid|DS CD are 500 fonts from the Bitstream typeface library.

Installing too many fonts on your workstation can noticeably degrade computing performance. Keep the number of fonts installed on your workstation to the minimum necessary to complete your projects.

Installing and Removing Type 1 Fonts

Type 1 font support in Avid|DS is available only if you have the Adobe Type Manager or Adobe Type Manager Deluxe software (version 4.0 or later) installed and active. Consult the documentation that came with the Adobe Type Manager or Adobe Type Manager Deluxe software for instructions on how to install and remove Type 1 fonts.

Installing and Removing TrueType Fonts

TrueType font support in Avid|DS does not require any additional software.

To install TrueType fonts

1. Go to **Start** > **Settings** > **Control Panel** > **Fonts**.

   The Fonts window is displayed.

2. From the File menu, choose **Install New Font**.

   The Add Fonts dialog box is displayed.

3. Use the Folders and Drives lists to navigate to the folder that contains the TrueType fonts that you want to install. On the Avid|DS Software CD, they're in the \Fonts folder.

   The available TrueType fonts in the selected folder appear in the List of Fonts list.

4. Select the fonts to install from the List of Fonts list, as follows:
   - To select a single font, click the name of the font.
   - To select a range of fonts, click the name of the first font. Then Shift-click the last font in the range.
   - To select all fonts in the directory, click **Select All**.
   - To switch the selection of a font, press the Ctrl key and click a font name.
5. (Optional) You can use the selected fonts from their current folder by deselecting the **Copy fonts to Fonts folder** option. This will save disk space on your local workstation.

   By default, fonts will be added to your workstation's local disk space. If you are adding several fonts, consider using the fonts from their current locations to save local disk space.
6. Click **OK**.

   The selected fonts are installed on your system.
7. If Avid|DS is currently running, restart it to access the newly installed fonts.

To remove TrueType fonts

1. Go to **Start** > **Settings** > **Control Panel** > **Fonts**.

   The Fonts window is displayed.
2. Select the fonts to remove.
3. Press Delete.

   You are prompted to confirm the deletion of the selected fonts.
4. Click **Yes**.
5. Close the Fonts and Control Panel windows.
6. If Avid|DS is currently running, restart it to update the list of available fonts.

Chapter 5 Installing the License File

In This Chapter...

This chapter describes how to request, install, and troubleshoot the license file on an Avid|DS workstation.

Requesting a License File 47

Softimage Licensing Program 48

Creating a Valid License File 49

Solving Licensing Problems 51

Requesting a License File

This version of Avid|DS requires a new 5.0 license file to validate the software. This license is provided to all valid Avid|DS customers and replaces the existing 4.0 license file. To run Avid|DS, you must have a license file, as well as a software protection key (Flexid dongle) connected to your parallel port.

If you're a new customer, you must request a license. When the license is issued, you will receive a copy by e-mail.

To request a license file

- Open your Internet browser and go to **http://www.softimage.com/licensing/request** to submit a license request.

You must provide all the information requested in order to obtain your license in a timely manner.

Avid|DS Customer Service does not generate permanent licenses. However, if your license is incorrect or if you haven't received it within 72 hours of your request, Customer Service can generate a limited one-week license. Your reseller must validate the request.

Softimage Licensing Program

Before licensing the Avid|DS 5.0 software, you must verify the version of the Softimage Licensing program.

To verify the version of the Softimage Licensing program

1. Go to **Start** > **Programs** > **SOFTIMAGE Products** > **Licensing** > **LicTools**.
2. Click **Existing License**.
3. Verify if the license text contains SENTINEL_KEY or FLEXID values before the dongle identifier (7-b285xxxx or 8-5E7000xxxxxx).
   - A SENTINEL_KEY entry indicates an older version of the Softimage Licensing program. You must update to the new version.
   - A FLEXID value indicates that the Softimage Licensing program is up to date and does not need a new installation.

7-36c7xxxx dongles can no longer be used to license Avid|DS systems and must be returned to Softimage for replacement.

To install the new version of the Softimage Licensing program

Do NOT uninstall the old version of the Softimage Licensing program.

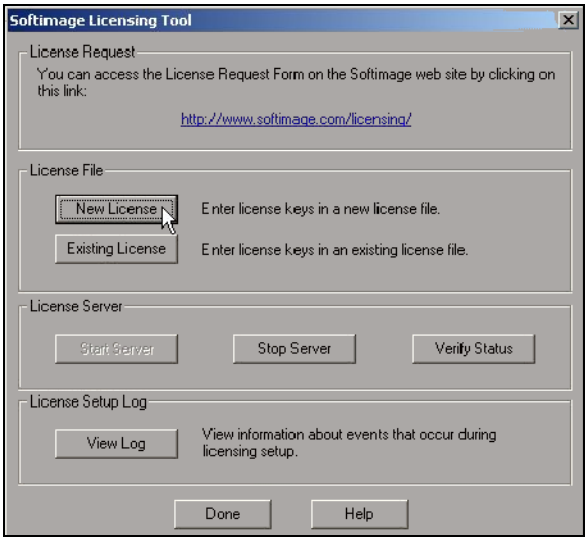
1. Insert the Avid|DS 5.0 Software CD into the CD-ROM drive.
2. From the menu, choose **Licensing Setup**.
3. Proceed with a default installation of the Softimage Licensing program.
4. When prompted, choose **Replace** to overwrite the current licensing program.
5. When the LicTools utility opens, choose **Enter Key Later**.
6. Click **Finish** to exit the Setup program.

Creating a Valid License File

Once you receive your license from Softimage Licensing, you can create the license file on your client workstation.

To create and validate a license file

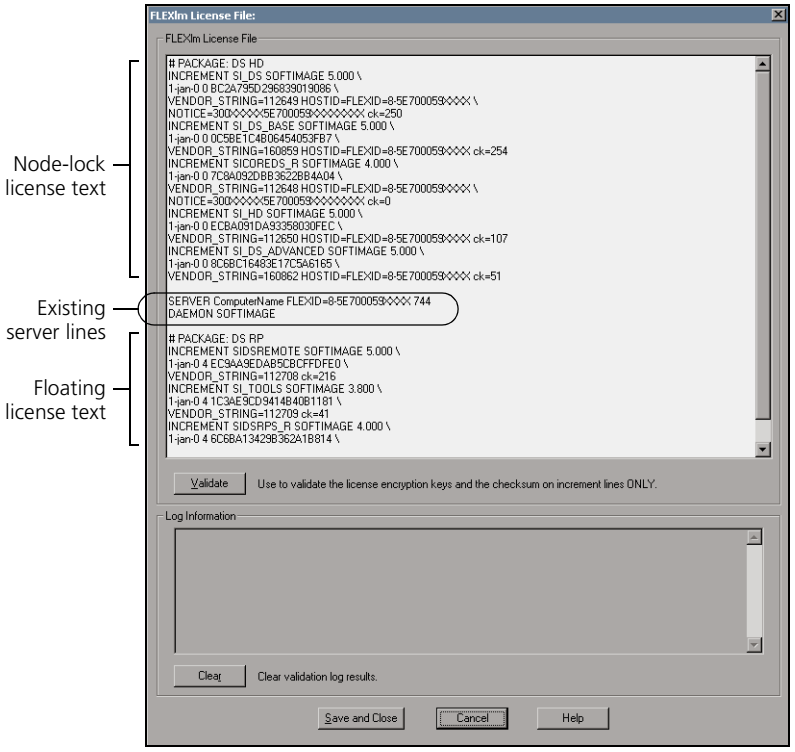
1. Go to **Start** > **Programs** > **SOFTIMAGE Products** > **Licensing** > **LicTools**.



2. Do one of the following:

   - If you are creating a new license file, click **New License**.
   - If you have an existing license file and need to add the floating license for remote processing, click **Existing License**.

     The FLEXlm License File dialog box is displayed.



3. Copy and paste the 5.0 node-lock license text from the licensing e-mail before the existing SERVER lines.
4. Copy and paste the floating license text after the SERVER lines.
5. Click **Validate** and check the Log Information dialog box:
   - If no error is reported, save and close the license file.
   - If there are reported errors, check the FLEXlm License File window for typos in the license text. If you cannot locate the source of the problem, contact Avid|DS Customer Service.

Solving Licensing Problems

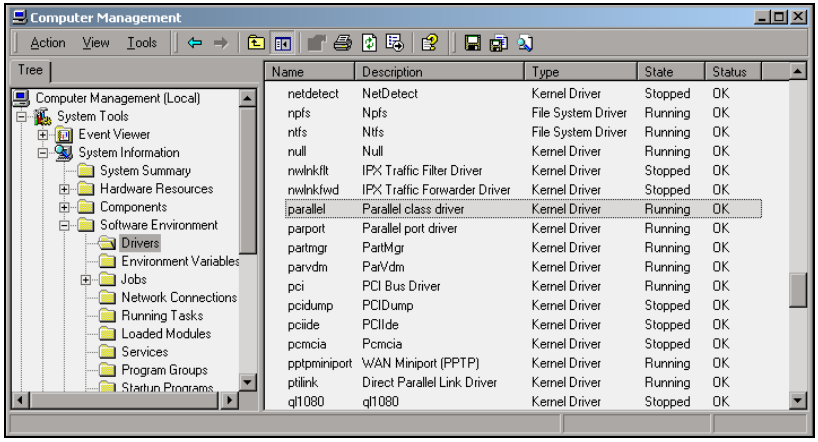
Before you can start Avid|DS, your system needs a software protection key (dongle) and a license file. If the dongle identification number matches the information in the license file, Avid|DS will start.

If the licensing components are not properly set up, Avid|DS will not start and an error message is displayed. If this occurs, try the following troubleshooting steps or refer to the Troubleshooting section of the Avid|DS Drivers CD. If startup problems persist, contact your reseller.

To verify that the dongle is properly installed on a Windows 2000 workstation

1. Make sure that the dongle is attached to the base unit's parallel port (LPT1) and secured with the locking screws—refer to *The Software Protection Key* on page 55 of the Avid|DS Workstation Setup Guide.
2. Right-click on My Computer and choose **Manage**.

   The Computer Management window is displayed.


Computer Management
Action View Tools
Tree
Computer Management (Local)
System Tools
Event Viewer
System Information
System Summary
Hardware Resources
Components
Software Environment
Drivers
Environment Variables
Jobs
Network Connections
Running Tasks
Loaded Modules
Services
Program Groups
Startup Programs
Name Description Type State Status
netdetect NetDetect Kernel Driver Stopped OK
npfs Npfs File System Driver Running OK
ntfs Ntfs File System Driver Running OK
null Null Kernel Driver Running OK
nwlnkflt IPX Traffic Filter Driver Kernel Driver Stopped OK
nwlnkfwd IPX Traffic Forwarder Driver Kernel Driver Stopped OK
parallel Parallel class driver Kernel Driver Running OK
parport Parallel port driver Kernel Driver Running OK
partmgr PartMgr Kernel Driver Running OK
parvdm ParVdm Kernel Driver Running OK
pci PCI Bus Driver Kernel Driver Running OK
pcidump PCIDump Kernel Driver Stopped OK
pciide PCIIde Kernel Driver Stopped OK
pcmcia Pcmcia Kernel Driver Stopped OK
pptpminiport WAN Miniport (PPTP) Kernel Driver Running OK
ptilink Direct Parallel Link Driver Kernel Driver Running OK
ql1080 ql1080 Kernel Driver Stopped OK

3. Use the tree (left) to navigate to the **System Tools** > **System Information** > **Software Environment** > **Drivers** folder.
4. Scroll down the list until you find the **Parallel**, **DS1410D**, and **Sentinel** devices, and verify the following for each device:
   - **State**: Running
   - **Status**: OK

To verify that the dongle is properly installed on a Windows NT workstation

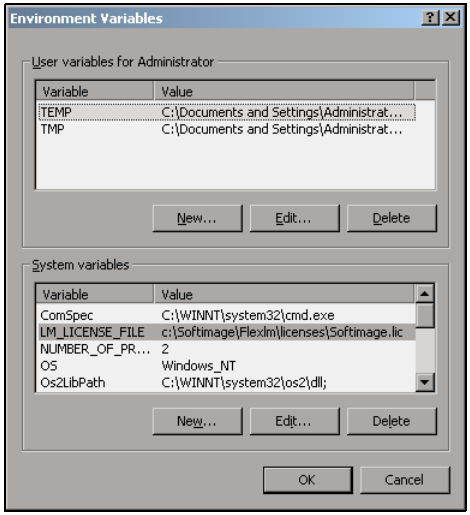
1. Go to **Start** > **Settings** > **Control Panel** > **Devices**.
2. Scroll down the list until you find the **Parallel**, **DS1410D**, and **Sentinel** devices, and verify that they are **Started**. If not, start them.

To verify the environment setting for the license file

1. Go to **Start** > **Settings** > **Control Panel**.
2. Double-click on **System**.

   The System Properties dialog box is displayed.
3. Do one of the following:
   - (Windows 2000) Select the **Advanced** tab and click **Environment Variables**.
   - (Windows NT) Select the **Environment** tab.

   The Environment Variables dialog box is displayed.



4. From the System Variables list, select **LM_LICENSE_FILE**.

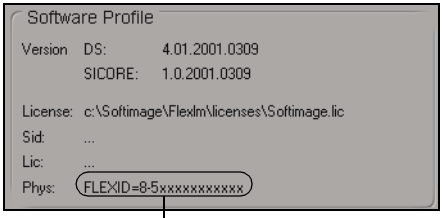
   Its value should be: **C:\Softimage\Flexlm\Licenses\Softimage.lic**.
5. If it is not, click **Edit**.

   The Edit System Variable dialog box is displayed.
6. Enter the following path in the Variable Value text box: **C:\Softimage\Flexlm\Licenses\Softimage.lic**. Click **OK**.
7. In the Environment Variable dialog box, click **OK**.

8. In the System Properties dialog box, click **OK** to finish.

To verify that the license number matches the dongle identification number

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v5.0** > **Customer Service** > **System Diagnostic**.
2. In the Machine Serial nb text box, enter the serial number of your workstation, and click **Run**.



Dongle identification number

The value displayed in the Software Profile box, under License Phys, is your workstation's dongle identification number (for example, Phys: FLEXID=8-5*xxxxxxxxxxx*).

3. Compare this value with the value in your system's **Softimage.lic** file, which is located in the **C:\Softimage\Flexlm\Licenses** folder. If they're not the same, contact your reseller or Avid|DS Customer Service.

Chapter 6 Managing Your Windows 2000 Workstation

In This Chapter...

This chapter contains information on your Avid|DS workstation and general guidelines on its maintenance and administration with the Windows 2000 operating system.

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Managing User Accounts. 60
Drive Maintenance. 64
About Striping 66
Creating a Stripe Volume 67
Creating an Emergency Repair Disk 74

Folders Installed On Your System

When you install Avid|DS, seven folders are created to hold various system files, project files, as well as media and cache files:

Folder	Description	Location
DS_v5.0	Contains the files required to run Avid|DS	C:\Program Files\Avid\DS_v5.0
DS Archives	Contains information on archived projects	F:\DS Archives
DS Projects	Contains the projects, sequences, and clips that you create in Avid|DS	F:\DS Projects
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.	C:\Program Files\Avid\DS_v5.0\DSPresets
VideoStorage	Contains the video media and cache files that you capture and bring into Avid|DS	D:\VideoStorage
AudioStorage	Contains the audio media and cache files that you capture and bring into Avid|DS	F:\AudioStorage
DSSystem	Contains system files	C:\Program Files\Avid\DS_v5.0\DSSystem

The DS_v4.02 Folder

The Avid|DS executable and the various .DLL files required by the application are in the C:\Program files\Avid\DS_v5.0 folder.

Do *not* move or modify any of the folders in the DS_v5.0 folder.

The DS_v5.0 folder contains the following folders:

Folder	Description
Command Maps	Contains the command maps for the different views and layouts in Avid|DS
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.
Help	Contains all the files required to use the online help, which provides reference information on property editors, dialog boxes, parameters, interface elements, and tasks
Preferences	Contains the user preferences and customized layouts, toolbars, and key maps

The DS Archives Folder

The DS Archives folder is used by Avid|DS to keep track of archived projects.

The DS Projects Folder

The DS Projects folder contains the projects that you create with Avid|DS. Each time you create a new project, you are prompted to select a location for the project folder. Although you may store project folders anywhere on a local disk, it's easier to manage projects if they're all stored in the DS Projects folder.

The project folder contains the clips and sequences associated with a project. Each project folder also contains a System folder.

- Do *not* move, delete, or modify the contents of the System folder.
- Never manually move a project between Avid|DS workstations. Use the Archive/Restore feature of Avid|DS instead.
- The System folder should be hidden. To hide specific file types, choose **Options** from the View menu in the Windows Explorer.

The System folder contains the following information:

Source models: These data structures allow Avid|DS to manage the relationship between clips, sequences, and their media. Each time you capture media from a new source, Avid|DS creates a corresponding source model, which tracks the time span, quality, and location of the different media files captured from that source. When you play back a clip from that source, Avid|DS consults the appropriate source model to locate the media.

Dsprojectinfo: This file contains information about the project format and other project preference settings. For more information on project preferences, refer to *Creating a New Project* on page 31 of the Avid|DS User's Guide.

The DSPresets Folder

The DSPresets folder contains presets, which you can use to define effects, transitions, graphics tools, and so on. The presets that are shipped with Avid|DS are stored in this folder by default.

Avid|DS also creates a DSPresets folder in each project folder. This lets you store user presets that are specific to a particular project with that project. You can also specify, as part of your user preferences, locations for your own and shared workgroup presets.

The VideoStorage Folder

The VideoStorage folder contains individual folders for each project. Each folder contains the video media and cache files for that project. Each folder's name is generated by the software and is based on a unique identification string (called a *GUID*) that identifies each project.

The AudioStorage Folder

The AudioStorage folder contains individual folders for each project. Each folder contains the audio media files for that project.

Do not delete audio or video media files or folders using Windows 2000 Explorer. If you want to delete a media file, use the Purge or Delete command in Avid|DS. For more information on deleting clips and/or purging media, refer to *Managing Media* on page 50 of the Avid|DS User's Guide.

The DSSystem Folder

The C:\Program Files\Avid\DS_v5.0\DSSystem folder contains system files and several folders used by Avid|DS.

Folder	Description
DSSystem	Contains the autosave files, viewer and test pattern bitmaps, some critical Avid|DS system files, and the crash log. Before modifying anything in this folder, contact Avid|DS Customer Service.
Rsrc	A resource folder for the 3D database
SoftDB	Contains the 3D database used by the 3D Warp effect

Managing User Accounts

Avid|DS makes full use of the Windows 2000 operating system. This includes multiple user accounts with your Avid|DS presets, layouts, and preferences preserved on an individual basis.

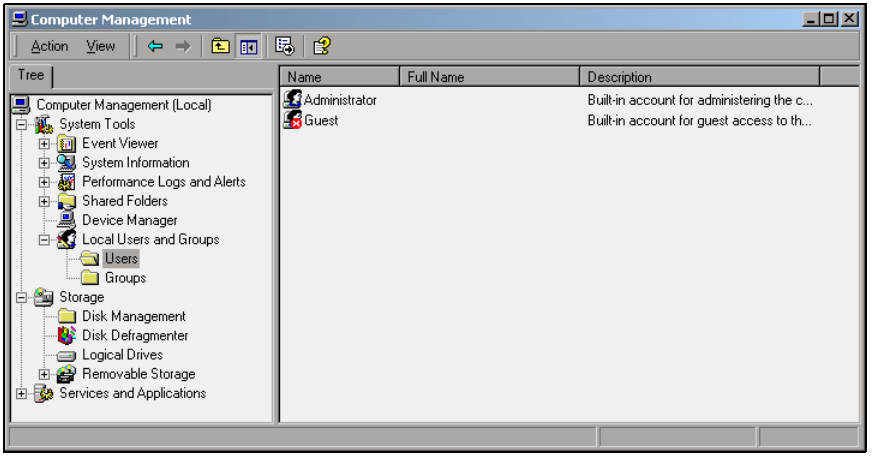
When you log on to a Windows 2000 workstation, you are accessing an environment associated with your user name. When you set any personal or project preferences while logged on, Avid|DS saves them to your user profile. For example, when you customize the Avid|DS desktop, the layouts that you create are saved with your user name. The next time you log on to that workstation, it recalls your previous settings.

When you first receive your Avid|DS system, the Windows 2000 operating system is already installed, and an administrator account is set up with a blank password.

You can change your password, and create and modify user accounts by accessing the Windows 2000 Computer Management console, which lets you define security features, such as permissions, rights, accounts, user groups, and audit policies.

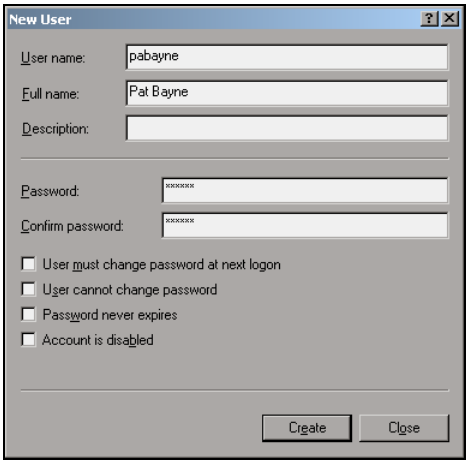
To create a user account

1. Right-click on My Computer and choose **Manage**.



2. Use the tree (left) to navigate to **System Tools** > **Local Users and Groups** > **Users**.

3. From the Action menu, choose **New User.**



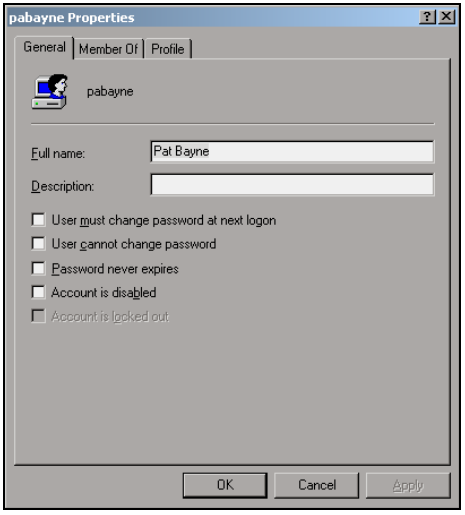
4. Enter the new user information and click **Create**.
5. Repeat step 4 until you're finished adding new users and click **Close**.

   The new user accounts are displayed in the Computer Management console.

To modify an account

1. In the Computer Management console, navigate to **System Tools** > **Local Users and Groups** > **Users**.
2. Double-click on the user account you want to edit.

   The <*username*> Properties dialog box is displayed.



3. Select the **General** tab to specify password options.
4. Select the **Member Of** tab to add the user to groups.

All Avid|DS users must be members of the Power Users group.

5. Select the **Profile** tab to specify and edit user profiles and logon scripts.
6. Click **OK** when you're finished.

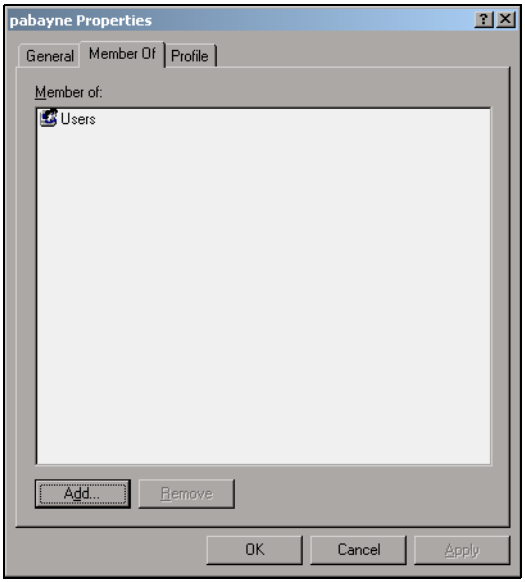
Creating Power Users

All users must be set up as Power Users in Windows 2000, so that they can use Avid|DS.

To add a user to the power user group

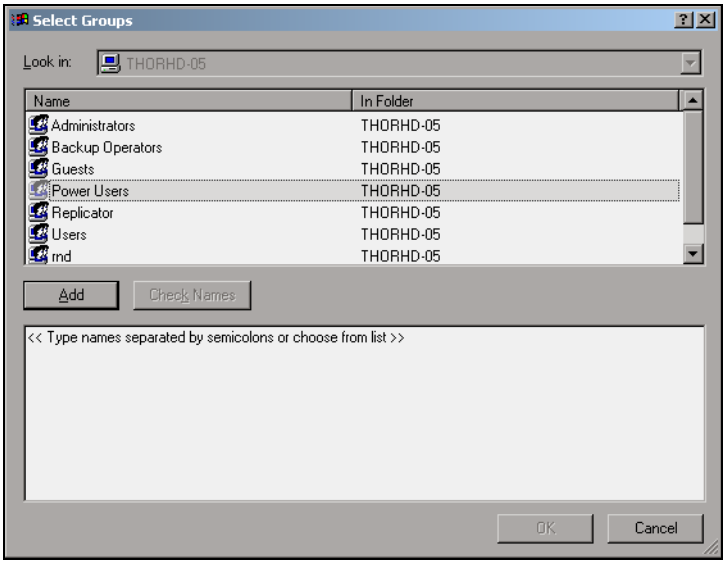
1. From the <*username*> Properties dialog box, select the **Member Of** tab.

   The following is displayed.



2. Click **Add**.

   The Select Groups dialog box is displayed.



3. In the upper pane, select **Power Users** and click **Add**.
4. Click **OK**.
5. In the <*username*> Properties dialog box, click **OK**.

To delete an account

1. In the Computer Management console, navigate to **System Tools** > **Local Users and Groups** > **Users**.
2. Right-click on an account and choose **Delete**.

Drive Maintenance

To prevent problems, you should keep at least 10% of the disk space on each drive free at all times. Keep in mind that during video media archiving, drive D: (Video Storage drive) is used to store files for any alpha material in the project.

When you run Avid|DS, it creates two interactive cache files on the Video Storage drive. These two files (DS_interactive_cache.tmp and DS_interactive_cache.tmp.lowres) can use up as much as 500 megabytes of your video storage area, and are mandatory for Avid|DS.

If there isn't enough available space for these files to be created, the system performance will drop dramatically. You may even experience a system failure. You should regularly purge unnecessary media files from the system to allow Avid|DS to work properly. For more information, refer to *Purging Media* on page 56 of the Avid|DS User's Guide.

Defragmenting your Drives

Performing a defragmentation on the disk drives helps to maintain your system's performance. The following is a suggested defragmentation schedule:

Drive	Frequency
C:\ (System disk)	Once a month, if required
D:\ (VideoStorage)	Once a week if workload is minimal; every day if workload is intensive
F:\ (Projects/Audio)	Once a month if workload is minimal; once a week if workload is intensive

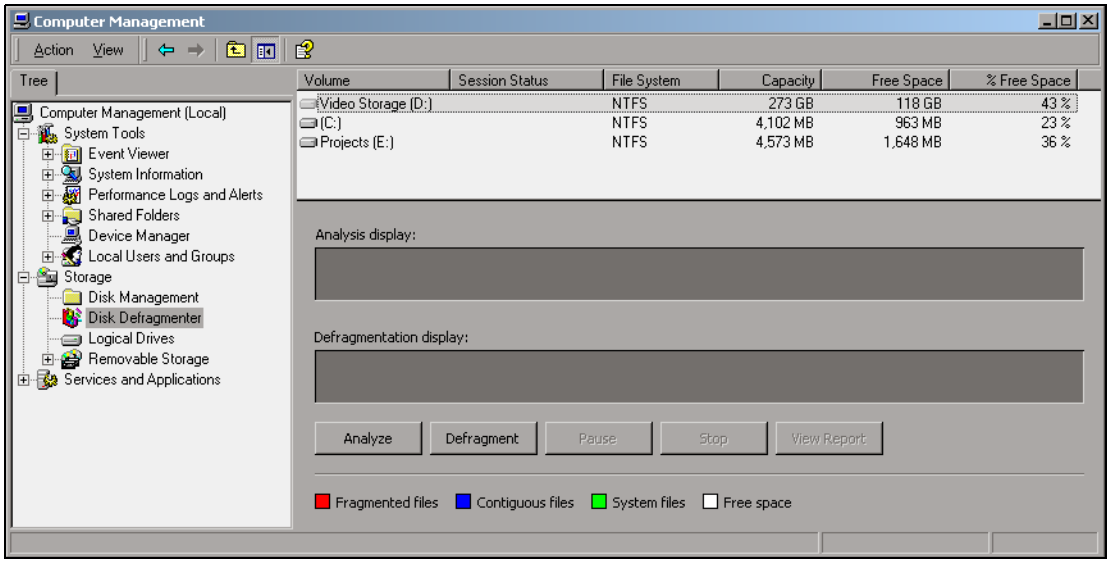
On Windows 2000 workstations, you can use the Windows 2000 Disk Defragmenter utility to defragment your disk drives.

Do *not* defragment your drives while Avid|DS is capturing, outputting, or processing media.

To defragment the drives on Windows 2000 workstations

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.



2. Use the tree (left) to navigate to **Storage** > **Disk Defragmenter**.
3. Right-click on the disk you want to defragment and choose **Defragment**.

About Striping

Striping is the process of configuring hard drives to allow the system to see two or more drives as a single drive. When you transfer files to striped drives, the files are split between the drives, and the data transfer rate increases. Striping is required to work with uncompressed and high video resolutions. Keep in mind the following when striping drives:

- Avid|DS requires at least eight drives striped together to sustain real-time performance.
- Hard drives of different sizes cannot be striped. For example, you can stripe eight 36-GB drives or eight 18-GB drives, but you cannot stripe four 36-GB drives and four 18-GB drives together.
- Striping drives deletes any material on them.
- Striping is cumulative. For example, when you stripe eight 36-GB drives, you can create an approximate 288-GB partition.
- If one drive in a striped volume becomes damaged or inoperable, the data on the remaining drives are lost.
- The capability for striping drives is built into the Windows 2000 operating system.

Creating a Stripe Volume

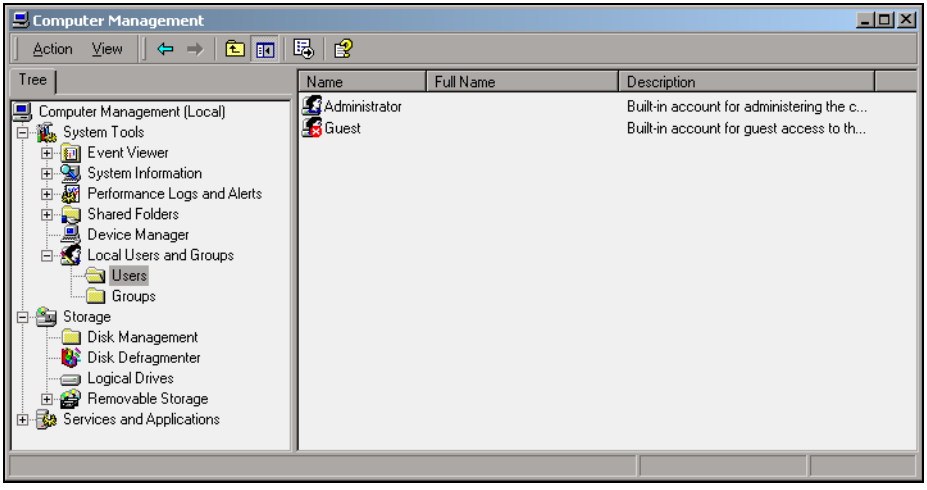
With Windows 2000, the disks in a stripe volume must be dynamic disks. Since disks are not usually shipped in this format, you may need to upgrade your disks before you can stripe them. The Disk Manager in the Computer Management console automatically detects whether your disks need to be upgraded to dynamic disks.

If you attempt to create a stripe volume from non-Avid drives, Avid makes no representation that the stripe volume will perform to Avid specifications for your application or sequence. Consequently, Avid|DS Customer Service will not be able to support any system issues caused by the non-Avid drives or the stripe volume.

To upgrade to dynamic disks

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.

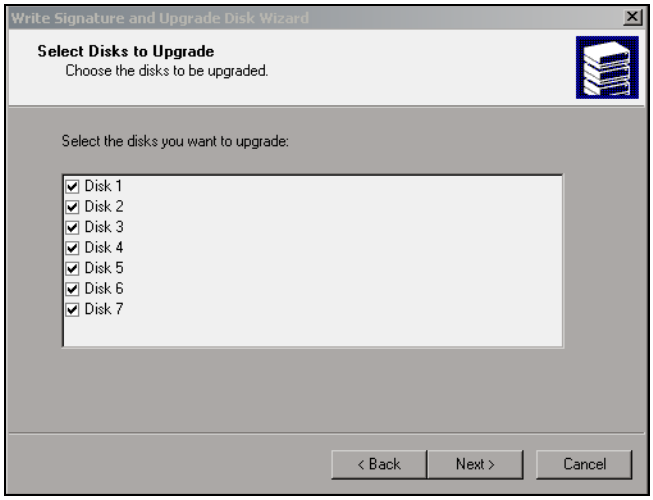


2. Use the tree (left) to navigate to **Storage** > **Disk Management**.

   If the disks in your storage array are not dynamic, the Write Signature and Upgrade Disk Wizard is displayed.

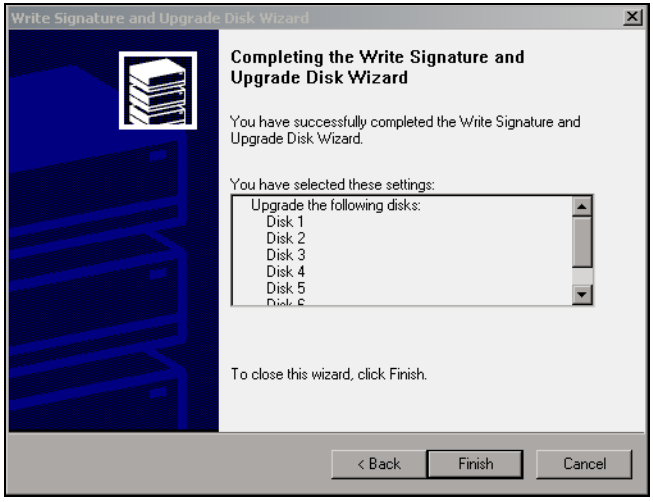
3. Click **Next**.

   The Select Disks to Upgrade dialog box is displayed.



4. Select the disks that need to be upgraded and click **Next**.

   The Completing the Write Signature and Upgrade Disks Wizard is displayed.



5. Verify your selections and click **Finish**.

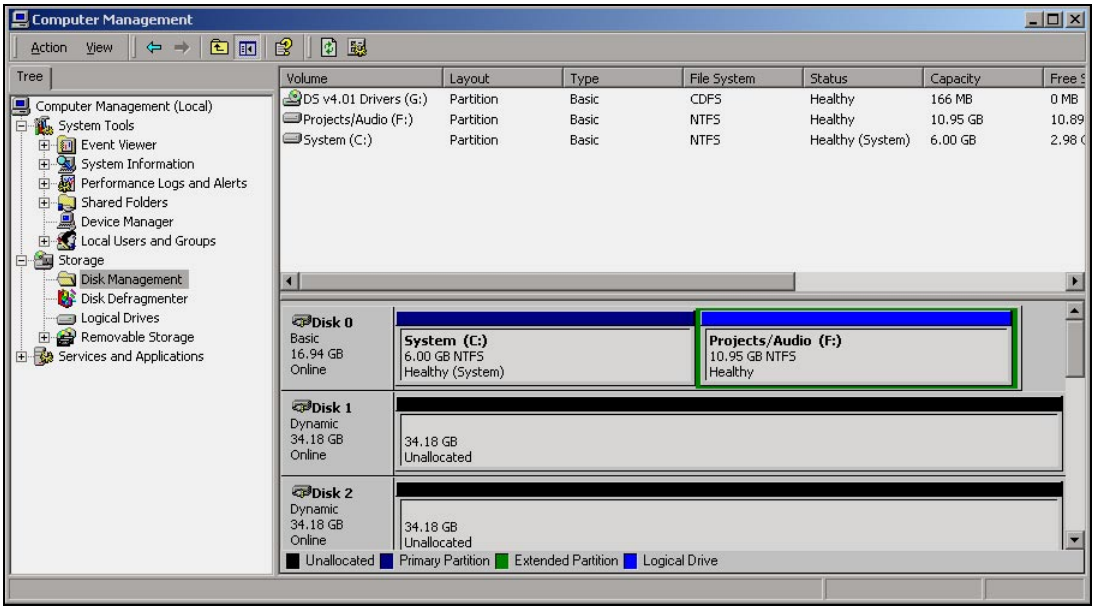
Striping the Drives

Once the disks in your storage array have been upgraded to dynamic disks, you can create the stripe volume.

To create a stripe volume

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.

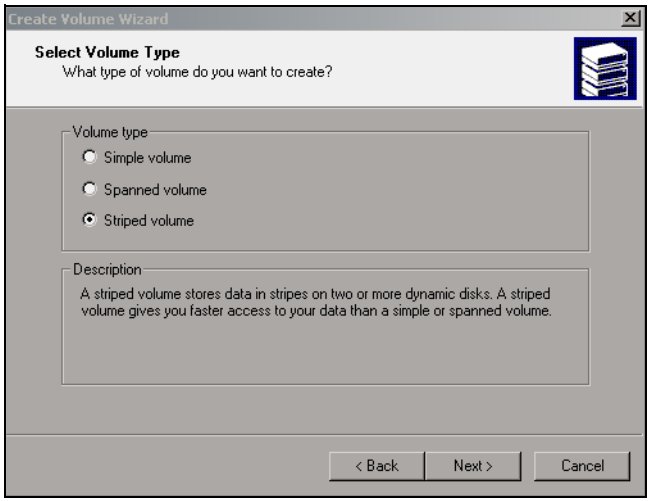


2. Use the tree (left) to navigate to **Storage** > **Disk Management**.
3. Right-click a disk in the stripe volume and choose **Create Volume**.

   The Create Volume Wizard is displayed.

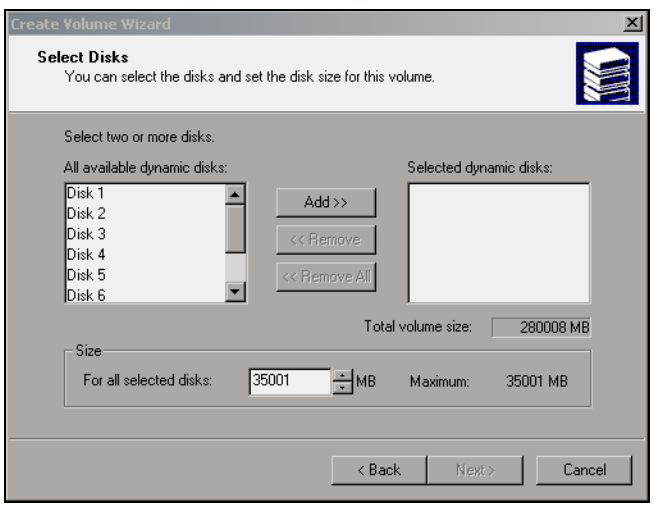
4. Click **Next**.

   The Select Volume Type dialog box is displayed.


Create Volume Wizard
Select Volume Type
What type of volume do you want to create?
Volume type
Simple volume
Spanned volume
Striped volume
Description
A striped volume stores data in stripes on two or more dynamic disks. A striped volume gives you faster access to your data than a simple or spanned volume.
< Back
Next >
Cancel

5. Select **Striped Volume** and click **Next**.

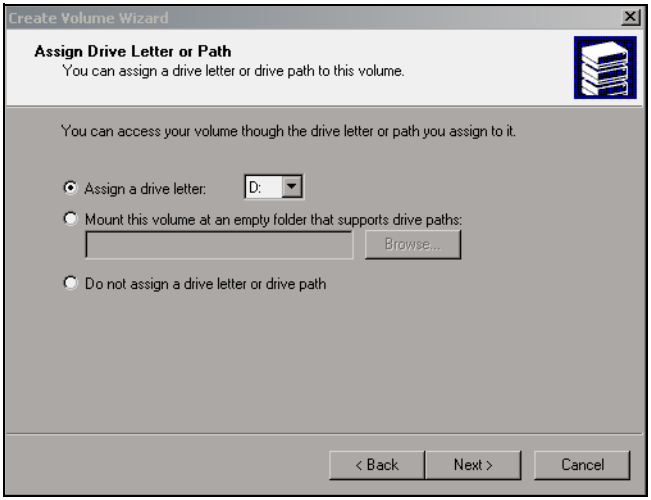
   The Select Disks dialog box is displayed.



6. In the All available dynamic disks box, select each of the disks in the stripe volume and click **Add>>**.

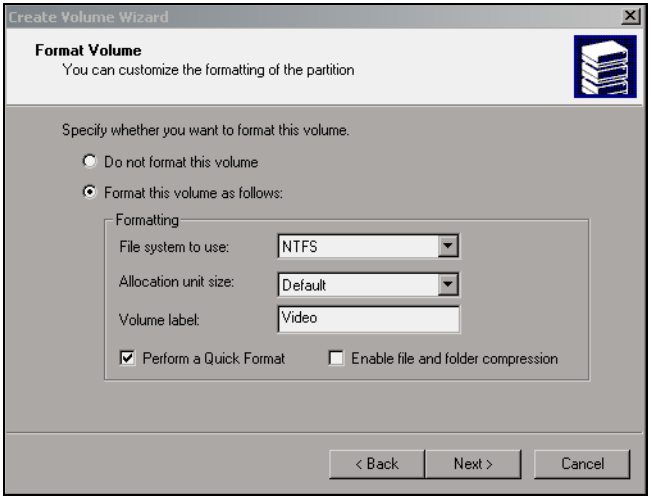
7. When you're finished, click **Next**.

   The Assign Drive Letter or Path dialog box is displayed.


Create Volume Wizard
Assign Drive Letter or Path
You can assign a drive letter or drive path to this volume.
You can access your volume though the drive letter or path you assign to it.
Assign a drive letter:
D:
Mount this volume at an empty folder that supports drive paths:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

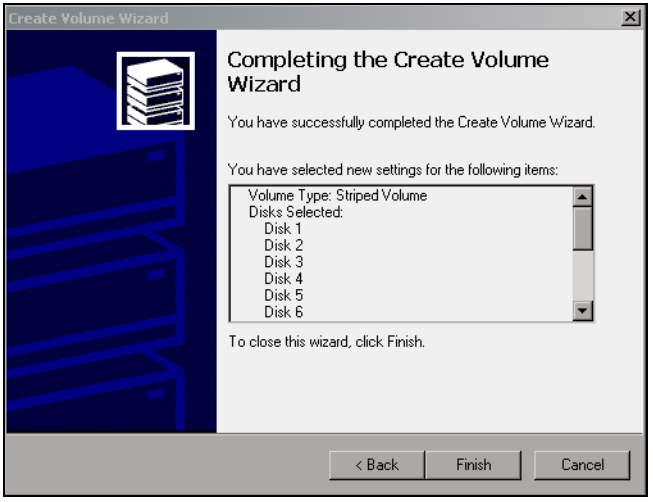
8. Select the appropriate drive letter for your video storage (normally D:) and click **Next**.

   The Format Volume dialog box is displayed.



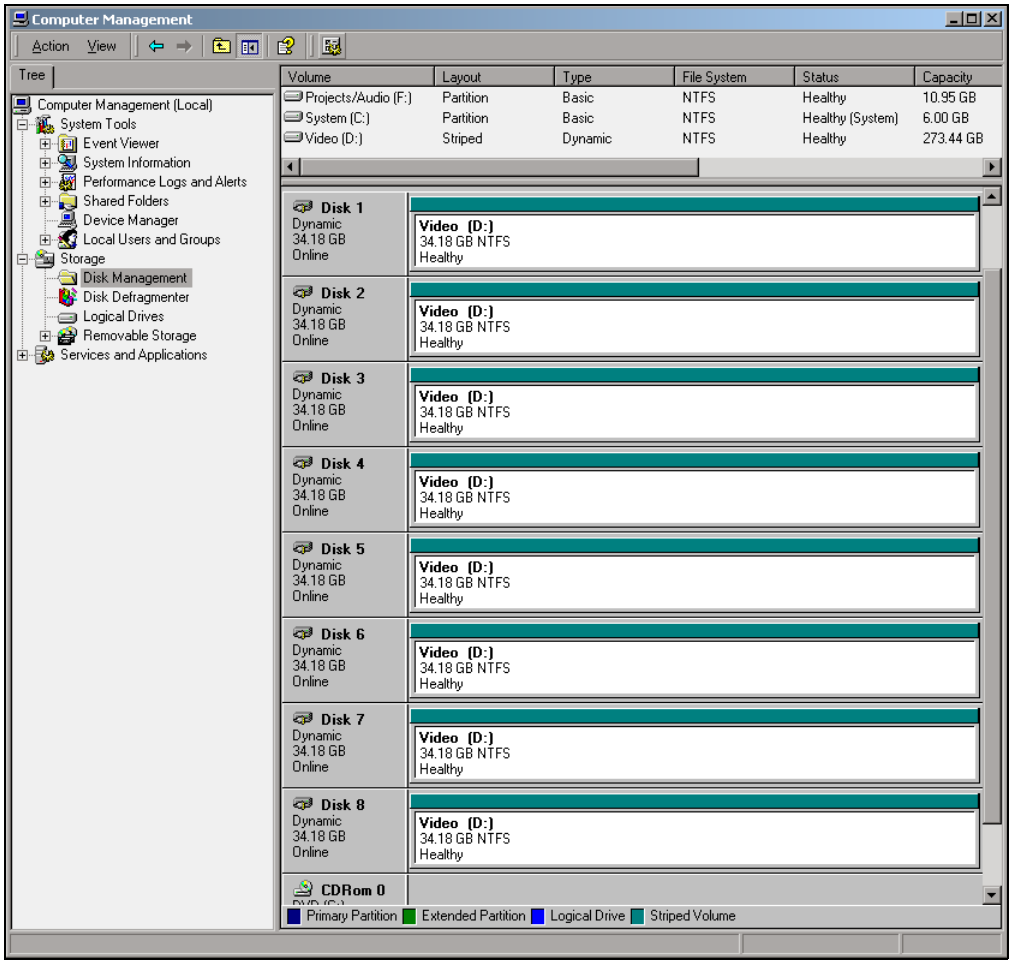
9. Select **Format this volume as follows** and set the following:
   - File system to use: NTFS
   - Allocation unit size: Default
   - Volume label: Video
   - Perform a Quick Format: Selected
   - Enable file and folder compression: Deselected
10. Click **Next**.

    The Completing the Create Volume Wizard is displayed.



11. Verify your settings and click **Finish**.

    Your video storage drives are striped and formatted.


Computer Management
Action View
Tree
Computer Management (Local)
System Tools
Event Viewer
System Information
Performance Logs and Alerts
Shared Folders
Device Manager
Local Users and Groups
Storage
Disk Management
Disk Defragmenter
Logical Drives
Removable Storage
Services and Applications
Volume Layout Type File System Status Capacity
Projects/Audio (F:) Partition Basic NTFS Healthy 10.95 GB
System (C:) Partition Basic NTFS Healthy (System) 6.00 GB
Video (D:) Striped Dynamic NTFS Healthy 273.44 GB
Disk 1 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 2 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 3 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 4 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 5 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 6 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 7 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 8 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
CDRom 0
Primary Partition Extended Partition Logical Drive Striped Volume

Creating an Emergency Repair Disk

An emergency repair disk can help you recover from a system failure in which the operating system has become corrupted. You should create a repair disk after any addition to the system, be it software or drivers.

To create an emergency repair disk

1. Go to **Start** > **Programs** > **Accessories** > **System Tools** > **Backup**.

   The Backup utility is displayed.

Backup - [Untitled]
Job Edit View Tools Help
Welcome Backup Restore Schedule Jobs
Welcome to the Windows 2000 Backup and Recovery Tools
Backup Wizard
The Backup wizard helps you create a backup of your programs and files so you can prevent data loss and damage caused by disk failures, power outages, virus infections, and other potentially damaging events.
Restore Wizard
The Restore wizard helps you restore your previously backed-up data in the event of a hardware failure, accidental erasure, or other data loss or damage.
Emergency Repair Disk
This option helps you create an Emergency Repair Disk that you can use to repair and restart Windows if it is damaged. This option does not back up your files or programs, and it is not a replacement for regularly backing up your system.

2. Click **Emergency Repair Disk**.

   You are prompted for a blank formatted diskette.

3. Insert the diskette into drive **A:** and click **OK**.
4. Follow the onscreen instructions to create the emergency repair disk.
5. When you're finished, remove the diskette from the drive, label it, and store it in a safe place.

You can make duplicates of the diskettes or save their contents on another storage device for added security.

Chapter 7 Managing Your Windows NT Workstation

In This Chapter...

This chapter contains information on your Avid|DS workstation and general guidelines on its maintenance and administration with the Windows NT operating system.

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Managing User Accounts. 80
Drive Maintenance. 82
About Striping 83
Creating a Stripe Set 84
Formatting Partitions. 87
Creating a Disk Configuration Disk 89
Creating a Windows NT Repair Disk 90
Critical Windows NT System Files 90
Backing Up Your Registry 91
Updating the Windows NT Service Pack. 92

Folders Installed On Your System

When you install Avid|DS, seven folders are created to hold various system files, project files, as well as media and cache files:

Folder	Description	Location
DS_v5.0	Contains the files required to run Avid|DS	C:\Program Files\Avid\DS_v5.0
DS Archives	Contains information on archived projects	F:\DS Archives
DS Projects	Contains the projects, sequences, and clips that you create in Avid|DS	F:\DS Projects
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.	C:\Program Files\Avid\DS_v5.0\DSPresets
VideoStorage	Contains the video media and cache files that you capture and bring into Avid|DS	D:\VideoStorage
AudioStorage	Contains the audio media and cache files that you capture and bring into Avid|DS	(E:) or F:\AudioStorage
DSSystem	Contains system files	C:\Program Files\Avid\DS_v5.0\DSSystem

The DS_v5.0 Folder

The Avid|DS executable and the various .DLL files required by the application are in the C:\Program files\Avid\DS_v5.0 folder.

Do *not* move or modify any of the folders in the DS_v5.0 folder.

The DS_v5.0 folder contains several folders including the following:

Folder	Description
Command Maps	Contains the command maps for the different views and layouts in Avid|DS
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.
Help	Contains all the files required to use the online help, which provides reference information on property editors, dialog boxes, parameters, interface elements, and tasks
Preferences	Contains the user preferences and customized layouts, toolbars, and key maps

The DS Archives Folder

The DS Archives folder is used by Avid|DS to keep track of archived projects.

The DS Projects Folder

The DS Projects folder contains the projects that you create with Avid|DS. Each time you create a new project, you are prompted to select a location for the project folder. Although you may store project folders anywhere on a local disk, it is easier to manage projects if they're all stored in the DS Projects folder.

The project folder contains the clips and sequences associated with a project. Each project folder also contains a System folder.

- Do *not* move, delete, or modify the contents of the System folder.
- Never manually move a project between Avid|DS workstations. Use the Archive/Restore feature of Avid|DS instead.
- The System folder should be hidden. To hide specific file types, choose **Options** from the View menu in Windows NT Explorer.

The System folder contains the following information:

- **Source models**: These data structures allow Avid|DS to manage the relationship between clips, sequences, and their media. Each time you capture media from a new source, Avid|DS creates a corresponding source model, which tracks the time span, quality, and location of the different media files captured from that source. When you play back a clip from that source, Avid|DS consults the appropriate source model to locate the media.
- **Dsprojectinfo**: This file contains information about the project format and other project preference settings. For more information on project preferences, refer to *Creating a New Project* on page 31 of the Avid|DS User's Guide.

The DSPresets Folder

The DSPresets folder contains presets, which you can use to define effects, transitions, graphics tools, and so on. The presets that are shipped with Avid|DS are stored in this folder by default.

Avid|DS also creates a DSPresets folder in each project folder. This lets you store user presets that are specific to a particular project with that project. You can also specify, as part of your user preferences, locations for your own and shared workgroup presets.

The VideoStorage Folder

The VideoStorage folder contains individual folders for each project. Each folder contains the video media and cache files for that project. Each folder's name is generated by the software and is based on a unique identification string (called a *GUID*) that identifies each project.

The AudioStorage Folder

The AudioStorage folder contains individual folders for each project. Each folder contains the audio media files for that project.

You should not delete audio or video media files or folders using Windows NT Explorer. If you want to delete a media file, use the Purge or Delete command in Avid|DS. For more information on deleting clips and/or purging media, refer to *Managing Media* on page 50 of the Avid|DS User's Guide.

The DSSystem Folder

The C:\Program Files\Avid\DS_v5.0\DSSystem folder contains system files and several folders used by Avid|DS.

Folder	Description
DSSystem	Contains the autosave files, viewer and test pattern bitmaps, some critical Avid|DS system files, and the crash log. Before modifying anything in this folder, contact Avid|DS Customer Service.
Rsrc	A resource folder for the 3D database
SoftDB	Contains the 3D database used by the 3D Warp effect

Managing User Accounts

Avid|DS makes full use of the Windows NT operating system. This includes multiple user accounts with your Avid|DS presets, layouts, and preferences preserved on an individual basis.

When you log on to a Windows NT workstation, you are accessing an environment associated with your user name. When you set any personal or project preferences while logged on, Avid|DS saves them to your user profile. For example, when you customize the Avid|DS desktop, the layouts that you create are saved with your user name. The next time you log on to that workstation, it recalls your previous settings.

When you first receive your Avid|DS system, the Windows NT operating system is already installed, and an administrator account is set up with a blank password.

You can change your password, and create and modify user accounts by accessing the Windows NT User Manager. The User Manager lets you define security features, such as permissions, rights, accounts, user groups, and audit policies.

To create a user account

1. Go to **Start** > **Programs** > **Administrative Tools (Common)** > **User Manager**.

   The User Manager window is displayed.

2. From the User menu, choose **New User**, and enter the new user information in the dialog box.

3. Click **OK**.

   The new user is displayed in the User Manager dialog box.

To modify an account

1. Go to **Start** > **Programs** > **Administrative Tools** > **User Manager**.

   The User Manager window is displayed.

2. Select the user name that you want to modify, or select **Administrator** to modify the administrator's account.

3. From the User menu, choose **Properties**, and modify the account as needed.

To change the account password, you can also press Ctrl+Alt+Del and click **Change Password**.

4. From the Policies menu, choose **Account**, and select the options you require.

5. From the Policies menu, choose **Audit**, and set the audit policy for the selected account.

6. From the Options menu, choose the options you require.

To delete an account

1. In the User Manager, select an account.

2. From the User menu, choose **Delete**. After you confirm the account removal, the selected account is deleted.

Drive Maintenance

To prevent problems, you should keep at least 10% of the disk space on each drive free at all times. Keep in mind that during video media archiving, drive D: (Video Storage drive) is used to store files for any alpha material in the project.

When you run Avid|DS, it creates two interactive cache files on the Video Storage drive. These two files (DS_interactive_cache.tmp and DS_interactive_cache.tmp.lowres) can use up as much as 500 megabytes of your video storage area, and are mandatory for Avid|DS.

If there isn't enough available space for these files to be created, the system performance will drop dramatically. You may even experience a system failure. You should regularly purge unnecessary media files from the system to allow Avid|DS to work properly. For more information, refer to *Purging Media* on page 56 of the Avid|DS User's Guide.

Defragmenting your Drives

Performing a defragmentation on the disk drives helps to maintain your system's performance. The following is a suggested defragmentation schedule:

Drive	Frequency
C:\ (System disk)	Once a month, if required
D:\ (VideoStorage)	Once a week if workload is minimal; every day if workload is intensive
E:\ (AudioStorage)	Once a month if workload is minimal; once a week if workload is intensive
F:\ (Projects)	Once a month if required

DiskeeperLite is provided with your system as a means of defragmenting the drives, but the results may be poor if the Video Storage is more than half full. Avid|DS Customer Service recommends buying the complete version of Diskeeper, or another similar software utility.

Do *not* defragment your drives while Avid|DS is capturing, outputting, or processing media.

About Striping

Striping is the process of configuring hard drives to allow the system to see two or more drives as a single drive. When you transfer files to striped drives, the files are split between the drives, and the data transfer rate increases. Striping is required to work with uncompressed and high video resolutions. Keep in mind the following when striping drives:

- Avid|DS requires at least eight drives striped together to sustain real-time performance.
- You cannot stripe hard drives of different sizes. For example, you can stripe eight 36-GB drives or eight 18-GB drives, but you cannot stripe four 36-GB drives and four 18-GB drives together.
- Striping drives deletes any material on them.
- Striping is cumulative. For example, when you stripe eight 36-GB drives, you can create an approximate 288-GB partition.
- If one drive in a set becomes damaged or inoperable, the data on the remaining drives are lost.
- The capability for striping drives is built into the Windows NT operating systems.

Creating a Stripe Set

You can create a stripe set across two drives. However, Avid|DS requires at least eight drives striped together to sustain real-time performance.

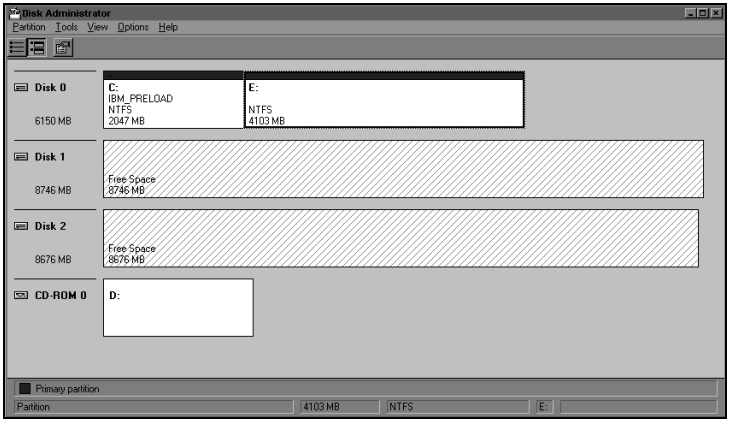
The drives you stripe must not contain extended or logical partitions. Use the Delete command to delete any partitions before you stripe the drives.

If you attempt to create a striped group from non-Avid drives, Avid makes no representation that the striped group will perform to Avid specifications for your application or sequence. Consequently, Avid|DS Customer Service will not be able to support any issues caused by the non-Avid drives or the striped group.

To stripe two drives

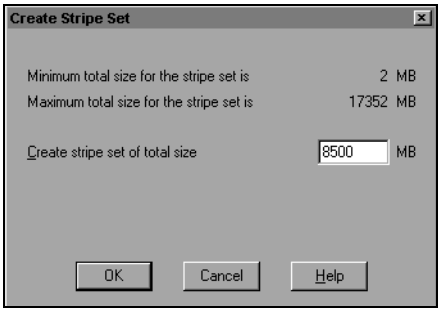
1. Start Windows NT 4.0 and log in to an account with Administrator privileges.
2. Go to **Start** > **Programs** > **Administrative Tools (Common Files)** > **Disk Administrator**.

   The Disk Administrator window is displayed. The example below shows Disk 1 and Disk 2 being used to create a stripe set.



3. Select a drive. Press the Ctrl key, and select another drive of the same size.
4. From the Partition menu, choose **Create Stripe Set**.

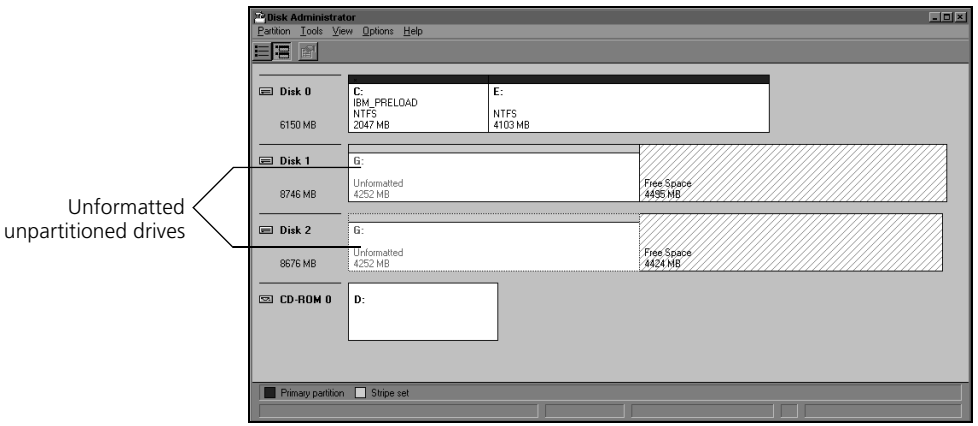
   The Create Stripe Set window is displayed.



5. Set the partition size to the size you need, and click **OK**.

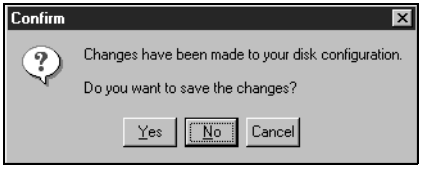
   The drives appear as an unformatted, unpartitioned stripe set.

Remember, the size of the partition is cumulative. If you set the partition size as 4 GB, the stripe set will be 2 GB on each drive. The Release Notes document for each Avid release contains the supported and suggested striping configurations.



6. Repeat steps 3 to 5 to create additional stripe sets, using the space remaining on your drives.
7. From the Partition menu, choose **Commit Changes Now**.

   The first Confirm dialog box is displayed.



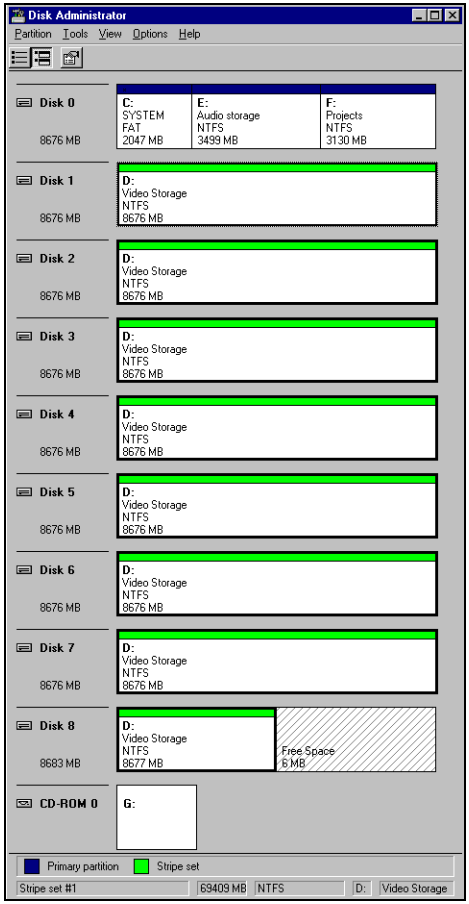
8. Click **Yes**.

   The following Disk Administrator window is displayed.

Disk Administrator
Disks were updated successfully.
It is recommended that you update the emergency repair configuration information and create a new Emergency Repair Disk. You can do this with the system utility RDISK.EXE.
OK

9. Click **OK**.

   When you're finished, the Disk Administrator should look similar to the following:



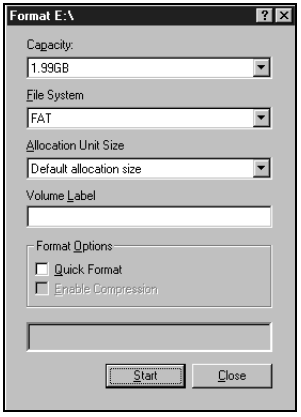
Formatting Partitions

Once you've created the stripe set, you'll need to format it before you can use it.

To format a stripe set you created

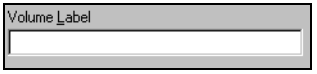
1. From the Windows NT Disk Administrator, select the primary partition (or striped partition) that you're going to format.
2. From the Tools menu, choose **Format**.

   The Format window is displayed.



3. From the File System list, select **NTFS File System**.

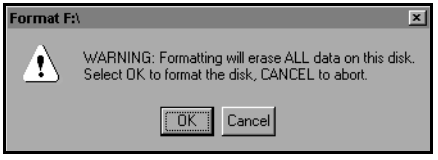
4. Enter a Volume Label Name.



   You can enter up to 14 characters.

5. Click **Start** to begin formatting.

   The Format warning dialog box is displayed.



6. Click **OK**.

   The Format Complete dialog box is displayed after formatting.

7. Click **OK**.
8. Repeat steps 1 to 7 until you've formatted all the primary partitions you created.

   You should now save the new disk configuration to a diskette.

Creating a Disk Configuration Disk

It's very important that you keep a copy of the signature of your fibre channel's stripe set. The fibre channel storage uses a level zero formatted stripe set, which does not offer any media duplication and protection. As a result, if the stripe set configuration is lost, all the video media information is lost too.

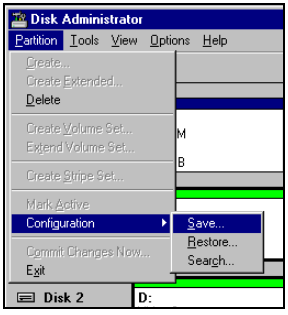
It is recommended that you create two copies of your Disk Configuration. If ever Windows NT or one of its component is repaired or reinstalled, the Disk Configuration diskette may be necessary to restore the stripe set.

A new Disk Configuration diskette should be created every time additional disks are added to the system.

To create a configuration disk

1. Start Windows NT 4.0 and log in to an account with administrator privileges.
2. Go to **Start** > **Programs** > **Administrative Tools** > **Disk Administrator**.

   The first Disk Administrator window is displayed.
3. From the Partition menu, choose **Configuration** > **Save**.



The following dialog box is displayed, prompting you to put a disk into the disk drive.

Insert Disk
This operation will save configuration information about currently defined drive letters, volume sets, stripe sets, stripe sets with parity, and mirror sets. The saved configuration information will be placed on a floppy disk.
Please insert a formatted disk into drive A:. Press OK when the disk is in the drive.
OK
Cancel

4. Insert a diskette into drive A: and click **OK**.
5. Store the configuration disk in a safe, dry, static-free location.

To make a duplicate backup, you can also copy the contents of the diskette to a safe area on your network.

Creating a Windows NT Repair Disk

A Windows NT Repair Disk can be used to recover from a system failure in which the operating system has become corrupted. You should create a Repair Disk after any addition to the system, be it software or drivers.

To create a Windows NT repair disk

1. Go to **Start** > **Run**.
2. Under Open, type **rdisk /s** (note the space) and click **OK**.

   A Saving Configuration progress indicator is displayed.
3. When prompted, insert a diskette, and click **Yes**.

   The Windows NT repair disk is created.

You can make duplicates of the diskettes or save their contents on another storage device for added security.

Critical Windows NT System Files

The following three files are critical to the Windows NT operating system. Should they be destroyed or corrupted, Windows NT will not boot or let users log in.

- C:\Boot.ini
- C:\Ntdetect.com
- C:\Ntldr
- C:\WinNT\system32\Ntoskrnl.exe

Copy these files to a diskette, and store it in a safe location.

To replace these damaged files on a corrupted system

1. Start up the system using a DOS boot diskette.
2. Copy the above files to the root directory of the C: drive.

When Windows NT crashes with a blue screen, it is often due to corruption of the Ntoskrnl.exe file. Using the above method to replace the corrupted file often recovers the operating system.

Backing Up Your Registry

Windows NT places system configuration information into a structure known as the registry. A Windows NT system will not run without a registry, and a damaged registry may prevent a system from booting. Keeping a backup of the registry can help you to quickly and easily recover from a system failure.

To back up your registry

1. Go to **Start** > **Run**.
2. In the Open text box, type **regedit**, and click **OK**.
3. In the Registry Editor, select **My Computer**.
4. Go to **Registry** > **Export Registry File**.
5. Choose a safe destination, and a proper file name for the registry backup.

   Example: F:\regbackup or *network path*\regbackup.

   A 1.4 megabyte diskette is too small to hold the registry backup.

6. In the Export Range box, select **All**.
7. Click **Save**.
8. When the save is completed, close the Registry Editor.

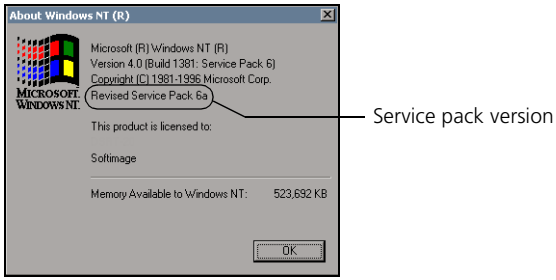
Updating the Windows NT Service Pack

Avid|DS 5.0 requires Windows NT 4.0 Revised Service Pack 6a in order to operate properly. Before installing the service pack, you'll have to verify the version that's currently on your system.

To verify the version of the service pack

1. Go to **Start** > **Run**.
2. Type **winver** and click **OK**.

   The following message box is displayed.


About Windows NT (R)
Microsoft (R) Windows NT (R)
Version 4.0 (Build 1381: Service Pack 6)
Copyright (C) 1981-1996 Microsoft Corp.
Revised Service Pack 6a
This product is licensed to:
Softimage
Memory Available to Windows NT: 523,692 KB
OK
Service pack version

   The correct service pack version is Revised Service Pack 6a.

3. If the service pack version is incorrect, use the following procedure to install the correct service pack.

To install the Windows NT Service Pack 6a

1. On the Avid|DS Drivers CD, open the \drivers\ntsp\sp folder and double-click on the **sp6ai386.exe** file.

   The Setup window is displayed.

2. If prompted, select the **Run this program** option and click **OK**.
3. In the Setup window, select the **Accept the License Agreement...** option.
4. If you're low on drive space, you can deselect the **Backup files...** option.
5. Click **Install**.
6. If prompted to keep or overwrite a file, you can overwrite the file if it's network related.
7. When the update is finished, restart the computer.

If you install network drivers later on, you will need to reinstall this service pack.

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